

GenCore version 5.1.4 ps 4578  
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OM protein - protein search, using sw model

Run on: May 4, 2003, 13:31:59 ; Search time 17.333 Seconds  
(without alignments)  
1930.031 Million cell updates/sec

Title: US-09-902-481B-3

Perfect score: 5879  
Sequence: 1 FNLDTENAMTFOENARFGQ.....FKROYKDMSEGSGPPGAEPQ 1137

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

al number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
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2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/1/1aa/5A\_COMB.pep:\*  
4: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score  | Query Match | Length | ID                  | Description        |
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| 1          | 5839   | 99.3        | 1153   | 1 US-08-173-497-3   | Sequence 3, Appl1  |
| 2          | 5839   | 99.3        | 1153   | 1 US-08-286-889-3   | Sequence 3, Appl1  |
| 3          | 5839   | 99.3        | 1153   | 1 US-08-485-618-3   | Sequence 3, Appl1  |
| 4          | 5839   | 99.3        | 1153   | 1 US-08-362-652-3   | Sequence 3, Appl1  |
| 5          | 5839   | 99.3        | 1153   | 2 US-08-605-672-3   | Sequence 3, Appl1  |
| 6          | 5839   | 99.3        | 1153   | 2 US-08-482-293A-3  | Sequence 3, Appl1  |
| 7          | 5839   | 99.3        | 1153   | 2 US-08-943-363-3   | Sequence 3, Appl1  |
| 8          | 5839   | 99.3        | 1153   | 4 US-09-193-043-3   | Sequence 3, Appl1  |
| 9          | 5839   | 99.3        | 1153   | 4 US-09-688-307A-3  | Sequence 3, Appl1  |
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| 12         | 5808.5 | 98.8        | 1152   | 5 PCT-US96-01314-43 | Sequence 43, Appl1 |
| 13         | 5808.5 | 98.8        | 1152   | 5 PCT-US96-01314-43 | Sequence 43, Appl1 |
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| 28 | 3388   | 57.6 | 1161 | 2 US-08-605-672-2   | Sequence 2, Appl1  |
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| 39 | 3213.5 | 54.7 | 1161 | 4 US-09-193-043-55  | Sequence 55, Appl1 |
| 40 | 3213.5 | 54.7 | 1161 | 4 US-09-688-307A-55 | Sequence 55, Appl1 |
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| 42 | 3206.5 | 54.5 | 1161 | 1 US-08-362-652-55  | Sequence 55, Appl1 |
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#### ALIGNMENTS

RESULT 1  
US-08-173-497-3  
; Sequence 3, Application US/08173497  
; Patent No. 5437958  
; GENERAL INFORMATION:  
; APPLICANT: Gallatin, W. Michael  
; APPLICANT: Van Der Vieren, Monica  
; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha  
; TITLE OR INVENTION: Subunit  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borzun  
; STREET: 233 S. Wacker Drive, 6300 Sears Tower  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606-6402  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/173,497  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. 5437958and, Greta E.  
; REGISTRATION NUMBER: 35,302  
; REFERENCE/DOCKET NUMBER: 27866/31363  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-474-6300  
; TELEFAX: 312-474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ. ID NO. 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1153 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-173-497-3  
Query Match 99.3%; Score 5839; DB 1; Length 1153;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;  
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DB 17 FNLDTENAMTFOENARFGQSVVLOGSRVYVGAPOEIVAAANORGLXYCQDYSGTSCPEI 76

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DB 317 NFEALKTIONQAREKIPALEGTOTGSSSSFEHEMSOGFSAATISNGPLSTVGSYDMAG 376
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DB 377 GVFLYTSKEKSTFINMTRVDSMDNDAYLGYAAIILNRVOSLVLAGAPRYOHIGLVAMFR 436
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DB 617 PVLRVKAIMEFNPREVARNVECDQVYKGEAGEVAVCLHVOKSTRDLREGOIQSVVT 676
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DB 677 YDLALDSGRPHSRVAVFETKSTRQOVGLTQTCETIKQLPNCIEDPVSPIVRLNF 736
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DB 737 SLVGTPLSAFAGNLPRVLAEDAQRFLTALFPEKKGCGNDNICODDLSTTFSEMSDCLVNG 796
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DB 797 GPREFNVTIVRNDGEDSYRTQVTFPPPLDISYRKVSTLONORSQSRMLACESASSTEV 856
QY 841 SGALKSTSCSINHIFPENSFVTNITFDVDSKASLGNKULLKANVTSNNMPTNTEF 900
DB 857 SGALKSTSCSINHIFPENSFVTNITFDVDSKASLGNKULLKANVTSNNMPTNTEF 916
QY 901 QLELPIVKAAYVAVVTSKGVSTKYLNFTASENTRVMOHOVSNLGORSLPISLVFLVPV 960
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QY 961 RLNQTIVMDRPQVTFSSNLSTCHTKERLPSHSDFLAELRKAPVNCISIAVQRIQCDIP 1020
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DB 1097 KVEFEVFNPLPLIVGSSVGGLLLALITALYKLGFFKQYKDMSEGGPPGAEPQ 1153

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RESULT 2
US-08-286-889-3
; Sequence 3, Application US/08286889
; Patent No. 5470953
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; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Mich
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Seear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/286,889
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: P38,659
; REFERENCE/DOCKET NUMBER: 27866/32168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
;
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-08-286-889-3
;
Query Match 99.3%; Score 5839; DB 1; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
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DB 17 FNDITENAMTFQENARFGQSVVOLQGSRVVVGAPQEIYAANGSGSLYQCDYSTGSCPEP 76
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DB 197 RIHFTFEFQNNPRLSLIKPITOLLGRTHATATGLRKVRELFINITNGARKNAFKILFL 256
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DB 257 TDGEKFGDPLGYEDVYIPEADREGVIRYVIGVDAFRSEKSRQELINTASKPRDHVFOVN 316
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DB 317 NFEALKTIONQAREKIPALEGTOTGSSSSFEHEMSOGFSAATISNGPLSTVGSYDMAG 376

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DB 497 PROGRARWQCDAYLYGQGGPWRFGALTVLGDVNDKLTDAVIGAPGEDNRGAAYLF 556
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DB 617 PVLRYKAIMFNPREVARNVFECDQVYKKGKAGEVRCVCHVOKSTRDLREGQIQSVVT 676
QY 661 YDLALDSGRHSRAVNETKSTRQTOVLGLTQCTELKQLPNCIEDPVSPIVLRLNF 720
DB 677 YDLALDSGRHSRAVNETKSTRQTOVLGLTQCTELKQLPNCIEDPVSPIVLRLNF 736
QY 721 SLVGTPLSAFAGNLRPVLAEDAQRLEFTALPFEKNCQNDNICODDLSTFMSLDCLVYG 780
DB 737 SLVGTPLSAFAGNLRPVLAEDAQRLEFTALPFEKNCQNDNICODDLSTFMSLDCLVYG 796
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DB 917 QLELPVYKAYVMVYTSKSTKYLNTFASENTSRVMOHQOVSNLIGORSLPISLVLVPLV 976
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RESULT 3  
US-08-485-618-3  
Sequence 3, Application US/08485618  
Patent No. 5728533

GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Van der Vlieten, Monica  
TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 103  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, 6300 Seear Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,618
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32797
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-618-3
Query Match 99.3%; Score 5839; DB 1; Length 1153;
Best Local Similarity 98.9%; Pred No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
QY 1 FNDTENAMTQENARFGQSVVQLQSGRVVGAPOEIVANORGLSYOCYSTGSCPT 60
DB 17 FNDTENAMTQENARFGQSVVQLQSGRVVGAPOEIVANORGLSYOCYSTGSCPT 76
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DB 77 RLOVPEAVNMSIGLSLAATSPPLLACGPTVHOTCSENTYYKGLCFLFGSNLRQOPK 136
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DB 137 FPEALRGCPQEDSDIAFLIDGSGSIIIPHPRRMKEIVSTIMEQLKSKTLFSLMOYSEF 196
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DB 197 RIHFTKEFQNNENPRSLIKPITQLGRTHTATGLRKVRLELFININGAKNAFKILL 256
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DB 257 TDGKRGDPLGYEDVYIPELDREGVIRYVLAGFGDAFSEKSRQSLATVASKEPPDHYFOAN 316
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DB 317 NFEALKTQVNOQLREKIPATIEGTQGTGSSSSFEHMSQEGFSAATTSNGPLISTVGYDMAG 376
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DB 377 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGYAAAILLNRVQSLVLAGPRYOHIGLVAMFR 436
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857 SGALKSTSCSINHPIFPENSEVTENITFDVDSKASLGNKLLKANVTSNNMPRTNTEF 916
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Db 917 QLELPVKYAVYVMTYSGVSTKINFTASENTSRVMOHQOVSNLGRSLPISLVLPV 976
QY 961 RLNDVTWDRPQVTFESNLSTCHTKERLPSHSDPLAELRKAPVNVCSIVCQICQDIP 1020
Db 977 RLNDVTWDRPQVTFESNLSTCHTKERLPSHSDPLAELRKAPVNVCSIVCQICQDIP 1036
QY 1021 FFGIOEFNATLKGNLSPDWYIKTSHNHLIVSTAELLFNDVSFTLLPGOGAFVRSQTER 1080
Db 1037 FFGIOEFNATLKGNLSPDWYIKTSHNHLIVSTAELLFNDVSFTLLPGOGAFVRSQTER 1096
QY 1081 KVEPFEPNPLPLIVGSSVGGLLLAILTALYKLGFPKQYKQMMSEGGPPGAEPO 1137
Db 1097 KVEPFEPNPLPLIVGSSVGGLLLAILTALYKLGFPKQYKQMMSEGGPPGAEPO 1153

RESULT 4
US-08-362-652-3
; Sequence 3, Application US/08362652
; Patent No. 5766850
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Seagr Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,652
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/286,889
; FILING DATE: 5-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.

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; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/32391
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-362-652-3

Query Match 99.3%; Score 5839; DB 1; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 1 FNDITENAMTFQENANGFGQSVVQLOGSRVVGAPQEIYANORGSLYOCDSYTGSCPEI 60
Db 17 FNDITENAMTFQENANGFGQSVVQLOGSRVVGAPQEIYANORGSLYOCDSYTGSCPEI 76
QY 61 RLQVPEAVNMSIGLSLAATTSPPQLLACGPTVHQTCEENTYVKGLCFLFGSNLRQOPQK 120
Db 77 RLQVPEAVNMSIGLSLAATTSPPQLLACGPTVHQTCEENTYVKGLCFLFGSNLRQOPQK 136
QY 121 FPPALGCPEDSDIAPLIDGSGSII PHPRRMKELVSTIMEOLKSKTLFSLMOYSEEF 180
Db 137 FPPALGCPEDSDIAPLIDGSGSII PHPRRMKELVSTIMEOLKSKTLFSLMOYSEEF 196
QY 181 RIHFTEKFPNNNPNPSLILKIPITQLGRHTATGRLKRVRELFINTGARKNAFKLLFL 240
Db 197 RIHFTEKFPNNNPNPSLILKIPITQLGRHTATGRLKRVRELFINTGARKNAFKLLFL 256
QY 241 TDGEKFGDPLGYEDVILPELDREGVIRYVIGFGDAFSEKSRQELNTVASKPPDHVFOAN 300
Db 257 TDGEKFGDPLGYEDVILPELDREGVIRYVIGFGDAFSEKSRQELNTVASKPPDHVFOAN 316
QY 301 NEFALKTQONOLPEKIFATIEGTOTGSSSFEHMSOGEFSAATTSNPILSTGSDVWAG 360
Db 317 NEFALKTQONOLPEKIFATIEGTOTGSSSFEHMSOGEFSAATTSNPILSTGSDVWAG 376
QY 361 GVELYTSKEKSTFINMTNRVDSQNDNDAYLGYAAIILRNROSLVLAGAPRYOHIGLVAMFR 420
Db 377 GVELYTSKEKSTFINMTNRVDSQNDNDAYLGYAAIILRNROSLVLAGAPRYOHIGLVAMFR 436
QY 421 QNTGMEBSNANVKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYIEOTRGQSVVCPL 480
Db 437 QNTGMEBSNANVKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYIEOTRGQSVVCPL 496
QY 481 PRGQARWQCDATLYEEOQPMGRFGAALTVDVNGDKLTVAIGAPBEDNRGAVYLE 540
Db 497 PRGQARWQCDATLYEEOQPMGRFGAALTVDVNGDKLTVAIGAPBEDNRGAVYLE 556
QY 541 HGTSGSGISPSHSQRIAGSKISPRLOYFGQSLSGODLTMDGLVDTLVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSQRIAGSKISPRLOYFGQSLSGODLTMDGLVDTLVGAQGHVLLRSQ 616
QY 601 PVLRVKAIMEFNPREVARNVECDNDQVVKGEAGEVAVCHVOKSTDRRLREGIOISVVT 660
Db 617 PVLRVKAIMEFNPREVARNVECDNDQVVKGEAGEVAVCHVOKSTDRRLREGIOISVVT 676
QY 661 YDLALDSGRPHSAVFNENKSTRROTQVGLTQTCETLKLQPNCEIDPVSIVLRNLF 720
Db 677 YDLALDSGRPHSAVFNENKSTRROTQVGLTQTCETLKLQPNCEIDPVSIVLRNLF 736
QY 721 SLVGTPLSAFNGNLRPVLAEDAQRFLTFALPFPEKNCNDNICODDLSTTFSSMSLDCLVG 780
Db 737 SLVGTPLSAFNGNLRPVLAEDAQRFLTFALPFPEKNCNDNICODDLSTTFSSMSLDCLVG 796
QY 781 GPREFNVTYVRNDGEDSYRQVTFEFPPLDLSYRKVSTLQNRORSRMLACESASSTEV 840

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Db 797 GPREFNVTVVRNDGEDSYRTQVTFEPLDLSYRKVSTLONORSORSMRLACESASTEV 856  
 Qy 841 SGALKSTSCSINHPPESEVTFNITFDVDSKASLGKLLKANTSENMPRTKTER 900  
 Db 857 SGALKSTSCSINHPPESEVTFNITFDVDSKASLGKLLKANTSENMPRTKTER 916  
 Qy 901 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQVSNLQGRSLPISLVLPV 960  
 Db 917 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQVSNLQGRSLPISLVLPV 976  
 Qy 961 RLNQYIWMRPQVTPFSNLSSTCHTKERLPSSHDFLAELRKAPVNCIIVCORICDIP 1020  
 Db 977 RLNQYIWMRPQVTPFSNLSSTCHTKERLPSSHDFLAELRKAPVNCIIVCORICDIP 1036  
 Qy 1021 FFGIOEFNATLKGNSLFDVYIKTSHNHLIVSTAEILFNDVSFTLLPGOGAFVRSQTER 1080  
 Db 1037 FFGIOEFNATLKGNSLFDVYIKTSHNHLIVSTAEILFNDVSFTLLPGOGAFVRSQTER 1096  
 Qy 1081 KVEPFVNPPLPIVSSVGGLLLLALITAAVYLGFFKQYQDMSEGGPPGAEPQ 1137  
 1097 KVEPFVNPPLPIVSSVGGLLLLALITAAVYLGFFKQYQDMSEGGPPGAEPQ 1153

## RESULT 5

US-08-605-672-3  
 Sequence 3, Application US/08605672

Patent No. 5817515

GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael

APPLICANT: Van der Vaeren, Monica

TITLE OF INVENTION: No. 5817515el Human 2 Integrin Alpha Subunit

NUMBER OF SEQUENCES: 103

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

STREET: 233 South Wacker Drive, 6300 Seer Tower

CITY: Chicago

STATE: Illinois

COUNTRY: United States

ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/605,672

FILING DATE:

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/173,497

FILING DATE: 23-DEC-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/286,889

FILING DATE: 5-AUG-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/362,652

FILING DATE: 21-DEC-1994

ATTORNEY/AGENT INFORMATION:

NAME: Williams Jr., Joseph A.

REGISTRATION NUMBER: 38,659

REFERENCE/DOCKET NUMBER: 27866/32684

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-474-6300

TELEFAX: 312-474-0448

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 1153 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

Query Match 99.3%; Score 5839; DB 2; Length 1153;  
 Best Local Similarity 98.9%; Pred. No. 0;  
 Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

1 FILDENAMTFOENARFGQSVVLOGSRVVGAPQEIIVANQSGSLYQCDYSTGSCBPI 60  
 17 FILDENAMTFOENARFGQSVVLOGSRVVGAPQEIIVANQSGSLYQCDYSTGSCBPI 76  
 Db 61 RLQVPEAVNMSLGSLAATTSBPQLACGPTVHOTCSNTYVKGICFLFGSNLRQOPK 120  
 77 RLQVPEAVNMSLGSLAATTSBPQLACGPTVHOTCSNTYVKGICFLFGSNLRQOPK 136  
 Qy 121 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEIVSTIMEQLKSKTFLFSLQSEEF 180  
 137 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEIVSTIMEQLKSKTFLFSLQSEEF 196  
 Db 181 RIHFTFKEFQNNPNRSLIKPITQLGRTHTATGLRKVRELFNITNGARKNAFKILFLL 240  
 197 RIHFTFKEFQNNPNRSLIKPITQLGRTHTATGLRKVRELFNITNGARKNAFKILFLL 256  
 Qy 241 TDGEKRGDPLGYEDVIRELDREGVIRYVGFQDAPRSEKSRQELNTVAKPRDHVFOAN 300  
 257 TDGEKRGDPLGYEDVIRELDREGVIRYVGFQDAPRSEKSRQELNTVAKPRDHVFOAN 316  
 Db 301 NPEALKTQONOLREKIFALIEGTQTGSSSFEHEMSQEGPSAITSNGPLSTVGSYDMA 360  
 317 NPEALKTQONOLREKIFALIEGTQTGSSSFEHEMSQEGPSAITSNGPLSTVGSYDMA 376  
 Qy 361 GVFELYTSKESKSTFINNTRVDSQNDVILGYAAIILNRVSLVIGAPRYOHIGLVAMER 420  
 377 GVFELYTSKESKSTFINNTRVDSQNDVILGYAAIILNRVSLVIGAPRYOHIGLVAMER 436  
 Db 421 QNTGMESNANKGTQIGAFYGASLCSYVDVDSNGSDVLIGAPHYEDTREGQVSVCL 480  
 437 QNTGMESNANKGTQIGAFYGASLCSYVDVDSNGSDVLIGAPHYEDTREGQVSVCL 496  
 Qy 481 PRGQARMQCDVLYGEOGQPMGRFGAALTIVGNDGKLTVAIGAPEEDNRGAVYLF 540  
 497 PRGQARMQCDVLYGEOGQPMGRFGAALTIVGNDGKLTVAIGAPEEDNRGAVYLF 556  
 Db 541 HGTSGSGISPSHSORJAGSKLSPRLQYFGQSLJSGQDLTMDGLVDTLTVGAQGHVLLRSQ 600  
 557 HGTSGSGISPSHSORJAGSKLSPRLQYFGQSLJSGQDLTMDGLVDTLTVGAQGHVLLRSQ 616  
 Qy 601 PVLRVKAIMEFNPREVAVRVFECNDQVYKGAAGEVRCVLAHQKSTRDLRREGQIOSVVT 660  
 617 PVLRVKAIMEFNPREVAVRVFECNDQVYKGAAGEVRCVLAHQKSTRDLRREGQIOSVVT 676  
 Db 661 YDLALDSGRPHSRVAVNETKSTRQTOVLGTLQTCETLKLQPNCTIEDPVSPIVLRNLF 720  
 677 YDLALDSGRPHSRVAVNETKSTRQTOVLGTLQTCETLKLQPNCTIEDPVSPIVLRNLF 736  
 Qy 721 SLVGTPLSAFGNLRPVLAADAQRLFTALPFPEKNCNDNICDDLSITSPMSLDCLVVG 780  
 737 SLVGTPLSAFGNLRPVLAADAQRLFTALPFPEKNCNDNICDDLSITSPMSLDCLVVG 796  
 Db 781 GPREFNVTVVRNDGEDSYRTQVTFEPLDLSYRKVSTLONORSORSMRLACESASTEV 840  
 797 GPREFNVTVVRNDGEDSYRTQVTFEPLDLSYRKVSTLONORSORSMRLACESASTEV 856  
 Qy 841 SGALKSTSCSINHPPESEVTFNITFDVDSKASLGKLLKANTSENMPRTKTER 900  
 857 SGALKSTSCSINHPPESEVTFNITFDVDSKASLGKLLKANTSENMPRTKTER 916  
 Db 901 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQVSNLQGRSLPISLVLPV 960  
 917 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQVSNLQGRSLPISLVLPV 976  
 Qy 961 RLNQYIWMRPQVTPFSNLSSTCHTKERLPSSHDFLAELRKAPVNCIIVCORICDIP 1020  
 977 RLNQYIWMRPQVTPFSNLSSTCHTKERLPSSHDFLAELRKAPVNCIIVCORICDIP 1036

QY 1021 FFGIOEFNATLKNLSFDWYIKTSHNHLIVSTAELIENDSVFTLLPGQAFVRSQTEP 1080  
DB 1037 FFGIOEFNATLKNLSFDWYIKTSHNHLIVSTAELIENDSVFTLLPGQAFVRSQTEP 1096  
QY 1081 KVEPFEVNPPLPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPGAEPO 1137  
DB 1097 KVEPFEVNPPLPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPGAEPO 1153

RESULT 6  
US-08-482-293A-3  
Sequence 3, Application US/08482293A  
Patent No. 5831029  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Van der Vlieten, Monica  
TITLE OF INVENTION: No. 5831029el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 103  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, 6300 Sear Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/482,293A  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/173,497  
FILING DATE: 23-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/286,889  
FILING DATE: 5-AUG-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/362,652  
FILING DATE: 21-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27866/32684  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1153 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-482-293A-3

Query Match 99.3%; Score 5839; DB 2; Length 1153;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 1 FNDLTENAMTFQENARFGGSGVVOLOGSRVYVGAPOEIVANOGSLYOCDSYNGCEPI 60  
DB 17 FNDLTENAMTFQENARFGGSGVVOLOGSRVYVGAPOEIVANOGSLYOCDSYNGCEPI 76  
QY 61 RLOVPEAVNMSLGLSLAATSPPOLACGFTVHQTSCSENTYVYKGLFGSLNLRQOPOR 120  
DB 77 RLOVPEAVNMSLGLSLAATSPPOLACGFTVHQTSCSENTYVYKGLFGSLNLRQOPOR 136  
QY 121 PPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMRKEVSTIMEOLKSKTLLPSLMQYSEEP 180

DB 137 PPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMRKEVSTIMEOLKSKTLLPSLMQYSEEP 196  
QY 181 RHFTFEFQNNNPNSLKIPIITOLLGRTATGLKVRRELNTNGARKAFKILFLL 240  
DB 197 RHFTFEFQNNNPNSLKIPIITOLLGRTATGLKVRRELNTNGARKAFKILFLL 256  
QY 241 TDGEKFGDPLGVEDVLPEDLREGVIRYVLGFGDAFRSEKSRQELANTVASXPEDHVFQAN 300  
DB 257 TDGEKFGDPLGVEDVLPEDLREGVIRYVLGFGDAFRSEKSRQELANTVASXPEDHVFQAN 316  
QY 301 NPEALKTIVNQLREKIFALIEGTOTGSSSSFEHEMSOGESAAITNSGPLISTYGSIDMAG 360  
DB 317 NPEALKTIVNQLREKIFALIEGTOTGSSSSFEHEMSOGESAAITNSGPLISTYGSIDMAG 376  
QY 361 GVELYTSKESSTFINMTRVDSNDNDAYLGAAAIILRNQVSLVLAGAPRYOHIGLVAMFR 420  
DB 377 GVELYTSKESSTFINMTRVDSNDNDAYLGAAAIILRNQVSLVLAGAPRYOHIGLVAMFR 436  
QY 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGQVSVCP 480  
DB 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGQVSVCP 496  
QY 481 PRGQARWQCDAYLYGEOGQPMGRFGAALTLYLGDVNGDKLTVAIGAPEGEDNRGAVYLF 540  
DB 497 PRGQARWQCDAYLYGEOGQPMGRFGAALTLYLGDVNGDKLTVAIGAPEGEDNRGAVYLF 556  
QY 541 HGTSGGISPSHSQRIAGSLSPRLQYFGOSLSGGODLTMDGLVDTLVGAGQHVLLRSQ 600  
DB 557 HGTSGGISPSHSQRIAGSLSPRLQYFGOSLSGGODLTMDGLVDTLVGAGQHVLLRSQ 616  
QY 601 PVLRYAIMEFNREVARVNEFCNDQVYKGEAVRVCILVYKSTRDRLEGOIQSVVT 660  
DB 617 PVLRYAIMEFNREVARVNEFCNDQVYKGEAVRVCILVYKSTRDRLEGOIQSVVT 676  
QY 661 YDLALDSGRHSAVNETNSTRQTOVLGLTQTEETLKLQPNCEIDPVSIVLRNF 720  
DB 677 YDLALDSGRHSAVNETNSTRQTOVLGLTQTEETLKLQPNCEIDPVSIVLRNF 736  
QY 721 SLVGTPLSAFNGRLPVLAEBAQRLFTALPFEKNCNDNICODDLSITFSFMSLDCLVYG 780  
DB 737 SLVGTPLSAFNGRLPVLAEBAQRLFTALPFEKNCNDNICODDLSITFSFMSLDCLVYG 796  
QY 781 GPREFNVYTVVRNDEDSYRTQVTFEPPLDSYKXVSTLONORSORSMWLACSSASTEV 840  
DB 797 GPREFNVYTVVRNDEDSYRTQVTFEPPLDSYKXVSTLONORSORSMWLACSSASTEV 856  
QY 841 SGALKSTSCSINHPIPEPSEVTFNITFPVDYSKASLGNKLLKANTSENMRRTKTER 900  
DB 857 SGALKSTSCSINHPIPEPSEVTFNITFPVDYSKASLGNKLLKANTSENMRRTKTER 916  
QY 901 QLELPKVAAYVWVTSHGVTYKTLNFTASENSTRVNOHOYOVSNLQORSPLISVLAVPY 960  
DB 917 QLELPKVAAYVWVTSHGVTYKTLNFTASENSTRVNOHOYOVSNLQORSPLISVLAVPY 976  
QY 961 RLMQTVIMDRPOVTFSENLSSTCHTERLPSHSDFLAEIRKAPVNVCSIAVCRICQDIP 1020  
DB 977 RLMQTVIMDRPOVTFSENLSSTCHTERLPSHSDFLAEIRKAPVNVCSIAVCRICQDIP 1036  
QY 1021 FFGIOEFNATLKNLSFDWYIKTSHNHLIVSTAELIENDSVFTLLPGQAFVRSQTEP 1080  
DB 1037 FFGIOEFNATLKNLSFDWYIKTSHNHLIVSTAELIENDSVFTLLPGQAFVRSQTEP 1096  
QY 1081 KVEPFEVNPPLPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPGAEPO 1137  
DB 1097 KVEPFEVNPPLPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPGAEPO 1153

RESULT 7  
US-08-943-363-3  
Sequence 3, Application US/08943363  
Patent No. 5837478  
GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael  
APPLICANT: Van der Vieren, Monica  
TITLE OF INVENTION: No. 5837478el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 114  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
CITY: Chicago  
STREET: 233 South Wacker Drive, 6300 Sear Tower  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/943,363  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/173,497  
FILING DATE: 23-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/286,889  
FILING DATE: 5-AUG-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/362,652  
FILING DATE: 21-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27866/32684  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1153 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-943-363-3

Query Match 99.3%; Score 5839; DB 2; Length 1153;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 1 FNDJTNAMFQGNARFGQSVVQLOGSRVVGAPQRIIVANORGSIXOCDSYTGSCPT 60  
DB 17 FNDJTNAMFQGNARFGQSVVQLOGSRVVGAPQRIIVANORGSIXOCDSYTGSCPT 76  
QY 61 RLQVPEAVNMSGLSLAATSPQQLACPTVHQCSENTYVYKGLCFLEGSNLROQPK 120  
DB 77 RLQVPEAVNMSGLSLAATSPQQLACPTVHQCSENTYVYKGLCFLEGSNLROQPK 136  
QY 121 FPEALRGCPQEDSDIAFLINGSGSIIIPHDRRMKELVSTIMEOLKSKTLPJLMQYSEEF 180  
DB 137 FPEALRGCPQEDSDIAFLINGSGSIIIPHDRRMKELVSTIMEOLKSKTLPJLMQYSEEF 196  
QY 181 RHIFTFEPQNNPNSRLIPITQLGRTHTATGLRKVVELFNITNGAKNAFKLIFLL 240  
DB 197 RHIFTFEPQNNPNSRLIPITQLGRTHTATGLRKVVELFNITNGAKNAFKLIFLL 256  
QY 241 TDEKFDPLGYEDVLPDLREGVIRYVLGFGDAFRSEKSRQELNTVASKPRPDHYFOAN 300  
DB 257 TDEKFDPLGYEDVLPDLREGVIRYVLGFGDAFRSEKSRQELNTVASKPRPDHYFOAN 316  
QY 301 NFPAKLVQVQALREKTAIGTQSGSSSPFHEHMSQGFSAATISNGLPLSTVGSYDMAG 360  
DB 317 NFPAKLVQVQALREKTAIGTQSGSSSPFHEHMSQGFSAATISNGLPLSTVGSYDMAG 376

QY 361 GVEFLYTSKESKSTFIMNTRVDSMDNDAYLGAAAILLRNVOSLVLGAPRYQHIGLVAMR 420  
DB 377 GVEFLYTSKESKSTFIMNTRVDSMDNDAYLGAAAILLRNVOSLVLGAPRYQHIGLVAMR 436  
QY 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLGAPHYEOTRGQVSVCL 480  
DB 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLGAPHYEOTRGQVSVCL 496  
QY 481 PRGORARWQCDVLYGEOGQPMGRFGAALTVDVNGDKLTDAVIGAPEENRGAVLYF 540  
DB 497 PRGORARWQCDVLYGEOGQPMGRFGAALTVDVNGDKLTDAVIGAPEENRGAVLYF 556  
QY 541 HSTSGSISPSHSORIASKSLSPRLQYFGQSLSGGQDLMDDLVDLTVGAQGHVLLRSQ 600  
DB 557 HSTSGSISPSHSORIASKSLSPRLQYFGQSLSGGQDLMDDLVDLTVGAQGHVLLRSQ 616  
QY 601 PVLRYKALMEFNPREVARNVFECDQVYKKEAGEVRVCLHVQKSTRDRLRREGQIOSVT 660  
DB 617 PVLRYKALMEFNPREVARNVFECDQVYKKEAGEVRVCLHVQKSTRDRLRREGQIOSVT 676  
QY 661 YDLALDSGRPHRAVENETKSTRROTQVLGLTORCETLKLQPNCTEDPVSPVILRLNF 720  
DB 677 YDLALDSGRPHRAVENETKSTRROTQVLGLTORCETLKLQPNCTEDPVSPVILRLNF 736  
QY 721 SLVGFPLSAFGNLRPLAEDAQRLFTALPPEKNGNDNICODDLSITFSFMSLCLVYG 780  
DB 737 SLVGFPLSAFGNLRPLAEDAQRLFTALPPEKNGNDNICODDLSITFSFMSLCLVYG 796  
QY 781 GREFNVTVYVNDGSDSYRTQVTFEPPLDLSYRKVSTLQNRQSORSWRLACESASTEV 840  
DB 797 GREFNVTVYVNDGSDSYRTQVTFEPPLDLSYRKVSTLQNRQSORSWRLACESASTEV 856  
QY 841 SGALSTGCSINHPIFPENSEVTNPITPDVDSKASLGNKLLKAVTSSNNMPRTNKTEF 900  
DB 857 SGALSTGCSINHPIFPENSEVTNPITPDVDSKASLGNKLLKAVTSSNNMPRTNKTEF 916  
QY 901 QLELPKYAVVYVNTSHGSTKYLNFPTASENSTRVMOHQYVSNIGORSPLSTVLVPEV 960  
DB 917 QLELPKYAVVYVNTSHGSTKYLNFPTASENSTRVMOHQYVSNIGORSPLSTVLVPEV 976  
QY 961 RLNQVIYMDRPQVTSSENISSTCHTKERLPSHSDPLAEIRKAPVNCSTIACVQRIOCDIP 1020  
DB 977 RLNQVIYMDRPQVTSSENISSTCHTKERLPSHSDPLAEIRKAPVNCSTIACVQRIOCDIP 1036  
QY 1021 FPGIOEFNATLKGNLSFPMWYIKTSHNHLIYSTAEILFNDVSFTLLPQOGAFVNSQTE 1080  
DB 1037 FPGIOEFNATLKGNLSFPMWYIKTSHNHLIYSTAEILFNDVSFTLLPQOGAFVNSQTE 1096  
QY 1081 KYEPFEPNPLPLIVGSSVGGLLLLALITLALYKLGFPKROYKDMMSSEGGPPGAEPQ 1137  
DB 1097 KYEPFEPNPLPLIVGSSVGGLLLLALITLALYKLGFPKROYKDMMSSEGGPPGAEPQ 1153

RESULT 8  
US-09-193-043-3  
; Sequence 3, Application US/09193043  
; Patent No. 6251395  
; GENERAL INFORMATION:  
; APPLICANT: Gallatin, Michael W.  
; APPLICANT: Van der Vieren, Monica  
; TITLE OF INVENTION: No. 6251395el Human 2  
; FILE REFERENCE: 27866/35004  
; CURRENT APPLICATION NUMBER: US/09/193,043  
; CURRENT FILING DATE: 1998-11-16  
; EARLIER APPLICATION NUMBER: 08/173,497  
; EARLIER FILING DATE: 1993-12-23  
; EARLIER APPLICATION NUMBER: 08/286,889  
; EARLIER FILING DATE: 1994-08-05  
; EARLIER APPLICATION NUMBER: 08/362,652  
; EARLIER FILING DATE: 1994-12-21  
; EARLIER APPLICATION NUMBER: 08/943,363  
; EARLIER FILING DATE: 1997-10-03

; NUMBER OF SEQ ID NOS: 114  
 ; SOFTWARE: PatentIn ver. 2.0  
 ; SEQ ID NO 3  
 ; LENGTH: 1153  
 ; TYPE: PRF  
 ; ORGANISM: Homo sapiens  
 US-09-193-043-3

Query Match 99.3%; Score 5839; DB 4; Length 1153;  
 Best Local Similarity 98.9%; Pred. No. 0;  
 Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 1 FNLDTENAMTFOENARFGQSVVVOLOGSRVVGAPQEIIVANORGSLYOCDYSGSCPT 60  
 DB 17 FNDITENAMTFOENARFGQSVVVOLOGSRVVGAPQEIIVANORGSLYOCDYSGSCPT 76  
 QY 61 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLSGNLROQPOK 120  
 DB 77 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLSGNLROQPOK 136  
 QY 121 FPBALRGCPQEDSDIAFLIDGSGSIIIPDPRMKELVSTIMEOLKSKTFLSLMOYSEEF 180  
 DB 137 FPBALRGCPQEDSDIAFLIDGSGSIIIPDPRMKELVSTIMEOLKSKTFLSLMOYSEEF 196  
 QY 181 RIHFTKEFONNPNPSLKIPTQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 240  
 DB 197 RIHFTKEFONNPNPSLKIPTQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 256  
 QY 241 TDEKEDPLGYEDVLPBLDRGVIRYVGFDAFRSEKSRQELNLTASKPRPDHVFQAN 300  
 DB 257 TDEKEDPLGYEDVLPBLDRGVIRYVGFDAFRSEKSRQELNLTASKPRPDHVFQAN 316  
 QY 301 NFEALKTQVQOLREKIFAIEGTOTGSSSFEHMSOGSFAAITSNGPLSTVGSYDMAG 360  
 DB 317 NFEALKTQVQOLREKIFAIEGTOTGSSSFEHMSOGSFAAITSNGPLSTVGSYDMAG 376  
 QY 361 GVPLYSKEKSTPIINMTRVSDMNDAYLGYAAAILLNRYQSVLGAAPRYQHIGLVAMFR 420  
 DB 377 GVPLYSKEKSTPIINMTRVSDMNDAYLGYAAAILLNRYQSVLGAAPRYQHIGLVAMFR 436  
 QY 421 QNTGMESSNANVGTQIGAFGASLGVSDVDSNGSTDLVILGAPHYEORRGQVSVCP 480  
 DB 437 QNTGMESSNANVGTQIGAFGASLGVSDVDSNGSTDLVILGAPHYEORRGQVSVCP 496  
 QY 481 PRGQARMOQDAVLVYGEQGPWGRFGAALTIVLGDVNGDKLTDVAIGAPEGEDNRGAAYLF 540  
 DB 497 PRGQARMOQDAVLVYGEQGPWGRFGAALTIVLGDVNGDKLTDVAIGAPEGEDNRGAAYLF 556  
 QY 541 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGQDLTMDGLVDLTVGAQGHVLLRSQ 600  
 DB 557 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGQDLTMDGLVDLTVGAQGHVLLRSQ 616  
 QY 601 PVLARVKAIMEFNPREVARNPECDQVYKKEGEVAVCLHVQKSTDRRLREGQISVVT 660  
 DB 617 PVLARVKAIMEFNPREVARNPECDQVYKKEGEVAVCLHVQKSTDRRLREGQISVVT 676  
 QY 661 YDLALDSGRHSAVFNETKSTRQTOVGLQTCETTLKQLPNCIEDVSPVILALNF 720  
 DB 677 YDLALDSGRHSAVFNETKSTRQTOVGLQTCETTLKQLPNCIEDVSPVILALNF 736  
 QY 721 SLVGTPLSAFAGNLRVLAEDAQRLLFTALPPEKXGNDNICODDLSTIFSFMISDCLVVG 780  
 DB 737 SLVGTPLSAFAGNLRVLAEDAQRLLFTALPPEKXGNDNICODDLSTIFSFMISDCLVVG 796  
 QY 781 GREPFNTVVRNDGDSYTOVTFEPLDLSTRKYSTLONORSORWRILACSSASTEV 840  
 DB 797 GREPFNTVVRNDGDSYTOVTFEPLDLSTRKYSTLONORSORWRILACSSASTEV 856  
 QY 841 SGALKSTSCSINHPIPEENSEVTNITFDVDSKASLGNKLLKANTYSENMMRTNKTFF 900  
 DB 857 SGALKSTSCSINHPIPEENSEVTNITFDVDSKASLGNKLLKANTYSENMMRTNKTFF 916  
 QY 901 QLELPVKYAVVWVTVSHGSTKYLNTASENTSRVMQHOYQVSNLQGRSLPISLVFLVPV 960

DB 917 QLELPVKYAVVWVTVSHGSTKYLNTASENTSRVMQHOYQVSNLQGRSLPISLVFLVPV 976  
 QY 961 RLNQYIMDRPOVTFSENSTCHTERLPSSHDFLAELRKAPVAVNCSIAVCRICODIP 1020  
 DB 977 RLNQYIMDRPOVTFSENSTCHTERLPSSHDFLAELRKAPVAVNCSIAVCRICODIP 1036  
 QY 1021 FPGIOEFNATLKNLSFPMYIKTSHNHLIVSTAEILFNDSVFTLLPGQAFVRSQET 1080  
 DB 1037 FPGIOEFNATLKNLSFPMYIKTSHNHLIVSTAEILFNDSVFTLLPGQAFVRSQET 1096  
 QY 1081 KXEPFVNPPLPIVSSSVGULLLALITLALYKLGFFKQYKDMMSBEGPPRAEPQ 1137  
 DB 1097 KXEPFVNPPLPIVSSSVGULLLALITLALYKLGFFKQYKDMMSBEGPPRAEPQ 1153

# RESULT 9 US-09-688-307A-3

; Sequence 3, Application US/09688307A  
 ; Patent No. 6432404  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gallatin, Michael W.  
 ; APPLICANT: Van der Vieren, Monica  
 ; TITLE OF INVENTION: No. 6432404el Human Beta-2  
 ; FILE REFERENCE: 27866/36646  
 ; CURRENT APPLICATION NUMBER: US/09/688,307A  
 ; PRIOR APPLICATION NUMBER: 09/193,043  
 ; PRIOR FILING DATE: 1998-11-16  
 ; PRIOR APPLICATION NUMBER: 08/605,672  
 ; PRIOR FILING DATE: 1996-02-22  
 ; PRIOR APPLICATION NUMBER: 08/173,497  
 ; PRIOR FILING DATE: 1993-12-23  
 ; PRIOR APPLICATION NUMBER: 08/286,889  
 ; PRIOR FILING DATE: 1994-08-05  
 ; PRIOR APPLICATION NUMBER: 08/362,652  
 ; PRIOR FILING DATE: 1994-12-21  
 ; PRIOR APPLICATION NUMBER: 08/943,363  
 ; PRIOR FILING DATE: 1997-10-03  
 ; NUMBER OF SEQ ID NOS: 114  
 ; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3  
 ; LENGTH: 1153  
 ; TYPE: PRF  
 ; ORGANISM: Homo sapiens  
 US-09-688-307A-3

Query Match 99.3%; Score 5839; DB 4; Length 1153;  
 Best Local Similarity 98.9%; Pred. No. 0;  
 Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 1 FNLDTENAMTFOENARFGQSVVVOLOGSRVVGAPQEIIVANORGSLYOCDYSGSCPT 60  
 DB 17 FNDITENAMTFOENARFGQSVVVOLOGSRVVGAPQEIIVANORGSLYOCDYSGSCPT 76  
 QY 61 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLSGNLROQPOK 120  
 DB 77 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLSGNLROQPOK 136  
 QY 121 FPBALRGCPQEDSDIAFLIDGSGSIIIPDPRMKELVSTIMEOLKSKTFLSLMOYSEEF 180  
 DB 137 FPBALRGCPQEDSDIAFLIDGSGSIIIPDPRMKELVSTIMEOLKSKTFLSLMOYSEEF 196  
 QY 181 RIHFTKEFONNPNPSLKIPTQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 240  
 DB 197 RIHFTKEFONNPNPSLKIPTQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 256  
 QY 241 TDEKEDPLGYEDVLPBLDRGVIRYVGFDAFRSEKSRQELNLTASKPRPDHVFQAN 300  
 DB 257 TDEKEDPLGYEDVLPBLDRGVIRYVGFDAFRSEKSRQELNLTASKPRPDHVFQAN 316  
 QY 301 NFEALKTQVQOLREKIFAIEGTOTGSSSFEHMSOGSFAAITSNGPLSTVGSYDMAG 360



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Db 317 NEPALKTIONOLREKIFALEGTOTGSSSFEHMSOGEFSAATISNGPLISTVGSYDMAG 376
Qy 361 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLCGAPRYOHIGLVAMFR 420
Db 377 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLCGAPRYOHIGLVAMFR 436
Qy 421 QNTGMESSNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 480
Db 437 QNTGMESSNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 496
Qy 481 PRGQARWOCDAVLVGEQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYL 540
Db 497 PRGQARWOCDAVLVGEQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYL 556
Qy 541 HGTSGSGISPSHSQRIAGSLSPRLQYFGQSLSGGQDLTMDGLVDTLVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSQRIAGSLSPRLQYFGQSLSGGQDLTMDGLVDTLVGAQGHVLLRSQ 616
Qy 601 PVLRVKAIMEFNPREVARNVFECNDQYVKGKAGEVAVCLHVQKSTREDLRREGQIOSVVT 660
Db 617 PVLRVKAIMEFNPREVARNVFECNDQYVKGKAGEVAVCLHVQKSTREDLRREGQIOSVVT 676
Qy 661 YDLALDSGRHSAVAVNETKSTRQOVUIGLTQTCETLKLQPNCTEDVSVTVLRANF 720
Db 677 YDLALDSGRHSAVAVNETKSTRQOVUIGLTQTCETLKLQPNCTEDVSVTVLRANF 736
Qy 721 SLVGTPLASAGNRPVLAEDAORLFTLPFEKXCGNDNICODDLSTTFSMJDLCLVVG 780
Db 737 SLVGTPLASAGNRPVLAEDAORLFTLPFEKXCGNDNICODDLSTTFSMJDLCLVVG 796
Qy 781 GPREPNVTAVRNDGEDSYRTQVTFEPDLISYRKVSTLONORSORSRWLACESASTEV 840
Db 797 GPREPNVTAVRNDGEDSYRTQVTFEPDLISYRKVSTLONORSORSRWLACESASTEV 856
Qy 841 SGALKSTSCSINHPREPNEVFNITFDVDSKASLGNKLLKANVTSENMRTKTER 900
Db 857 SGALKSTSCSINHPREPNEVFNITFDVDSKASLGNKLLKANVTSENMRTKTER 916
Qy 901 QLELPVYAVVMTVTSVSTKYLINFASENTSRVMOHQOVSNLGRSLPISLVLPV 960
Db 917 QLELPVYAVVMTVTSVSTKYLINFASENTSRVMOHQOVSNLGRSLPISLVLPV 976
Qy 961 RLNQVIWDRPOVTFSENLSSTCHTERLPSSHDFLAELKAPVNSIACVQRIQCDIP 1020
Db 977 RLNQVIWDRPOVTFSENLSSTCHTERLPSSHDFLAELKAPVNSIACVQRIQCDIP 1036
Qy 1021 FFGIOEFBNATLKGNSLFDWYIKTSHNHLIIVSTAELFENDSVFTLLPGQAFVRSQTER 1080
Db 1037 FFGIOEFBNATLKGNSLFDWYIKTSHNHLIIVSTAELFENDSVFTLLPGQAFVRSQTER 1096
Qy 1081 KVEPFEVNPPLPIVGSVGGLLLLITAAVYKLGFEKROKQYKMMSEGGPPGAEPQ 1137
Db 1097 KVEPFEVNPPLPIVGSVGGLLLLITAAVYKLGFEKROKQYKMMSEGGPPGAEPQ 1153

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## RESULT 10

US-08-476-062A-43  
Sequence 43, Application US/08476062A

## GENERAL INFORMATION:

APPLICANT: Armat, M. Amin  
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY  
NUMBER OF SEQUENCES: 53  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

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? COMPUTER: IBM Compatible
? OPERATING SYSTEM: Windows95
? SOFTWARE: FASTSEQ for Windows Version 2.0
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/476,062A
? FILING DATE: 07-JUN-1995
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/216,081
? FILING DATE: 21-MAR-1994
? APPLICATION NUMBER: 07/537,830
? FILING DATE: 04-JAN-1991
? APPLICATION NUMBER: 07/539,842
? FILING DATE: 18-JUN-1990
? APPLICATION NUMBER: 07/212,573
? FILING DATE: 28-JUN-1988
? ATTORNEY/AGENT INFORMATION:
? NAME: Freeman, John W.
? REGISTRATION NUMBER: 29,066
? REFERENCE/DOCKET NUMBER: 00786/068003
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 617/542-5070
? TELEFAX: 617/542-8906
?
? TELEX: 200154
? INFORMATION FOR SEQ ID NO: 43:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1152 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? FRAGMENT TYPE: Internal
?
US-08-476-062A-43

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Query Match 98.8%; Score 5808.5; DB 2; Length 1152;

Best Local Similarity 98.6%; Pred. No. 0; Mismatches 7; Indels 1; Gaps 1;

Matches 1121; Conservative 8;

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Qy 1 FNDTENAMTPOBNARFGOSVVOLOGSRVVGAPQEIVAANORGLXOCDYSTGSCBEI 60
Db 17 FNDTENAMTPOBNARFGOSVVOLOGSRVVGAPQEIVAANORGLXOCDYSTGSCBEI 76
Qy 61 RLQVPEAVNMSLGLSLAATTSPPOLLACGPTVHOTCSNTYVKGICFLFGSNLRQOPK 120
Db 77 RLQVPEAVNMSLGLSLAATTSPPOLLACGPTVHOTCSNTYVKGICFLFGSNLRQOPK 136
Qy 121 FPEARLGCPOEDSDIAFLIDSGSGIIPHDFRMKEFVSTVMEQLKSKTLPFLMOYSEEP 180
Db 137 FPEARLGCPOEDSDIAFLIDSGSGIIPHDFRMKEFVSTVMEQLKSKTLPFLMOYSEEP 196
Qy 181 RIHFTPEKQNNPNPRLIKPTQLLGRTHATGLRKVRELFNITNGARKNAFKILFLL 240
Db 197 RIHFTPEKQNNPNPRLIKPTQLLGRTHATGLRKVRELFNITNGARKNAFKILFLL 256
Qy 241 TDGEKFGDPLGYEDVLPDLREGVIRYVIGFDAPFSEKSRQELNTVASKPPRDHVFQAN 300
Db 257 TDGEKFGDPLGYEDVLPDLREGVIRYVIGFDAPFSEKSRQELNTVASKPPRDHVFQAN 316
Qy 301 NEPALKTIONOLREKIFALEGTOTGSSSFEHMSOGEFSAATISNGPLISTVGSYDMAG 360
Db 317 NEPALKTIONOLREKIFALEGTOTGSSSFEHMSOGEFSAATISNGPLISTVGSYDMAG 376
Qy 361 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLCGAPRYOHIGLVAMFR 420
Db 377 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLCGAPRYOHIGLVAMFR 436
Qy 421 QNTGMESSNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 480
Db 437 QNTGMESSNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 496
Qy 481 PRGQARWOCDAVLVGEQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYL 540
Db 497 PRGQARWOCDAVLVGEQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYL 556
Qy 541 HGTSGSGISPSHSQRIAGSLSPRLQYFGQSLSGGQDLTMDGLVDTLVGAQGHVLLRSQ 600

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556 HGTSGSGISPSHSQRIAGSLSPRLQYFGOSLSGGODLTMDGLVDTLVAQGHVLLRSQ 615
601 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLRBGOIOSVVT 660
616 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLRBGOIOSVVT 675
661 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPVILRLNF 720
676 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPVILRLNF 735
721 SLVGTPLSAFNGNLRPVLAEDAQRLLFTLFPFEKNCNDNICODDLSTIFSMSLDCLVYG 780
736 SLVGTPLSAFNGNLRPVLAEDAQRLLFTLFPFEKNCNDNICODDLSTIFSMSLDCLVYG 795
781 GPREFNVTYTVNRDGEDSYRTQVTFPPDLSTRKYSTLONORSQSRMLACESASTEV 840
796 GPREFNVTYTVNRDGEDSYRTQVTFPPDLSTRKYSTLONORSQSRMLACESASTEV 855
841 SGALKSTCSINHPFPENSEVTENITFDVDSKASLGNKLLKXAVTSNNMPRTNKTEF 900
856 SGALKSTCSINHPFPENSEVTENITFDVDSKASLGNKLLKXAVTSNNMPRTNKTEF 915
901 QLELIPVYKAYMYVTSHGVSTKILNFTASENTSRVMOHOYQVSNLGRSLPISLVFLVPV 960
916 QLELIPVYKAYMYVTSHGVSTKILNFTASENTSRVMOHOYQVSNLGRSLPISLVFLVPV 975
961 RLMQTVIMDRPOVTFSENLSSTCHTERLPSHSDFLAEKAPVNSIIVCORIQDIP 1020
976 RLMQTVIMDRPOVTFSENLSSTCHTERLPSHSDFLAEKAPVNSIIVCORIQDIP 1035
1021 PFGIOEBFNATLKGNSLFDWYIKTSHNLLIVSTAEILFNDVSFTLLPGGAFVRSQTER 1080
1036 PFGIOEBFNATLKGNSLFDWYIKTSHNLLIVSTAEILFNDVSFTLLPGGAFVRSQTER 1095
1081 KVBEPFENPLPLIVGSSVGGLLLAILTALYKLGFKKQYKDMSEGGPPGAEPQ 1137
1096 KVBEPFENPLPLIVGSSVGGLLLAILTALYKLGFKKQYKDMSEGGPPGAEPQ 1152

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RESULT 11  
PCT-US96-01314-43  
Sequence 43, Application PC/TUS9601314  
GENERAL INFORMATION:  
APPLICANT: M. Amin Arnaout  
TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN  
TITLE OF INVENTION: ANTAGONISTS  
NUMBER OF SEQUENCES: 78  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: U.S.A.  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
COMPUTER: IBM PS/2 Model 502 or 55SX  
OPERATING SYSTEM: MS-DOS (Version 5.0)  
SOFTWARE: WordPerfect (Version 5.1)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/01314  
FILING DATE: 30-JAN-96  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/380,167  
FILING DATE: 30-JAN-95  
ATTORNEY/AGENT INFORMATION:  
NAME: John W. Freeman  
REGISTRATION NUMBER: 29,066  
REFERENCE/DOCKET NUMBER: 00786/267001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 542-5070  
TELEFAX: (617) 542-8906

```

; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
PCT-US96-01314-43

Query Match      98.8%; Score 5808.5; DB 5; Length 1152;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1121; Conservative 8; Mismatches 7; Indels 1; Gaps 1;

QY 1 FNLDENAMTFOENARFGQSVVQLGSRVYVGAPOEIVAAHQSGLYQCDYSTGSCBPI 60
DB 17 FNLDENAMTFOENARFGQSVVQLGSRVYVGAPOEIVAAHQSGLYQCDYSTGSCBPI 76
QY 61 RLOVPYEAVMMSLGLSLAATTSPPQLLAGCPVHQCSENTYVKGICLFGSNLRQOPK 120
DB 77 RLOVPYEAVMMSLGLSLAATTSPPQLLAGCPVHQCSENTYVKGICLFGSNLRQOPK 136
QY 121 FPEALRGCPQEBSDIAFLIDGSGSIIPHDFRMKELVSTIMEOLKSKTLFSIMOYSEEF 180
DB 137 FPEALRGCPQEBSDIAFLIDGSGSIIPHDFRMKELVSTIMEOLKSKTLFSIMOYSEEF 196
QY 181 RHIFTFKEFQNNPNRSLIKPITOLLGRTHATGLRKVRELFNITNGARKNAFKILFLL 240
DB 197 RHIFTFKEFQNNPNRSLIKPITOLLGRTHATGLRKVRELFNITNGARKNAFKILVVI 256
QY 241 TDEKRGDPLGEBDVPELDRGCVIRYVGFQDAFPESEKSRQELNTVAKPRPDHFOAN 300
DB 257 TDEKRGDPLGEBDVPELDRGCVIRYVGFQDAFPESEKSRQELNTVAKPRPDHFOAN 316
QY 301 NFPEALTYONOLREKIFALEGTQTGSSSFHEHMSQEGSAATNSGPLSTVGSYDMAG 360
DB 317 NFPEALTYONOLREKIFALEGTQTGSSSFHEHMSQEGSAATNSGPLSTVGSYDMAG 376
QY 376 GVFLYTSKESKSTFINMTRVDSQNDAYLGYAAAILRNVSQSLVLCAPPYOHIGLVAMFR 436
DB 421 QNTGMSNANVKGTOIGAFGASLCSVDVDSNGSTDLVLCAPHYEQTRGGQVSVCEL 480
QY 437 QNTGMSNANVKGTOIGAFGASLCSVDVDSNGSTDLVLCAPHYEQTRGGQVSVCEL 496
DB 481 PRGORARWOCDAVLVGEQSGPWRFGAALTVDGVNGLTVAIGAPEEDNRGAVLYLF 540
QY 497 PRGORARWOCDAVLVGEQSGPWRFGAALTVDGVNGLTVAIGAPEEDNRGAVLYLF 555
DB 541 HGTSGSGISPSHSQRIAGSLSPRLQYFGOSLSGGODLTMDGLVDTLVAQGHVLLRSQ 600
QY 556 HGTSGSGISPSHSQRIAGSLSPRLQYFGOSLSGGODLTMDGLVDTLVAQGHVLLRSQ 615
DB 601 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLRBGOIOSVVT 660
QY 616 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLRBGOIOSVVT 675
DB 661 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPVILRLNF 720
QY 676 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPVILRLNF 735
DB 721 SLVGTPLSAFNGNLRPVLAEDAQRLLFTLFPFEKNCNDNICODDLSTIFSMSLDCLVYG 780
QY 736 SLVGTPLSAFNGNLRPVLAEDAQRLLFTLFPFEKNCNDNICODDLSTIFSMSLDCLVYG 795
DB 781 GPREFNVTYTVNRDGEDSYRTQVTFPPDLSTRKYSTLONORSQSRMLACESASTEV 840
QY 796 GPREFNVTYTVNRDGEDSYRTQVTFPPDLSTRKYSTLONORSQSRMLACESASTEV 855
DB 841 SGALKSTCSINHPFPENSEVTENITFDVDSKASLGNKLLKXAVTSNNMPRTNKTEF 900
QY 856 SGALKSTCSINHPFPENSEVTENITFDVDSKASLGNKLLKXAVTSNNMPRTNKTEF 915

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QY 901 QLELPVKYAVYVVTSHGVTSTKYLNFASSENTSRVMQHOYQVSNLQGRSLPISLVLPV 960  
 Db 916 QLELPVKYAVYVVTSHGVTSTKYLNFASSENTSRVMQHOYQVSNLQGRSPISLVLPV 975  
 QY 961 RLNQYIWMRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCISAVCQRIQCDIP 1020  
 Db 976 RLNQYIWMRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCISAVCQRIQCDIP 1035  
 QY 1021 FPGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVSFTLLPGQGAFAVRSOTET 1080  
 Db 1036 FPGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVSFTLLPGQGAFAVRSOTET 1095  
 QY 1081 KVEPFEVNPPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1137  
 Db 1096 KVEPFEVNPPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1152  
 RESULT 12  
 5424399-2  
 Patent No. 5424399  
 APPLICANT: ARNAOUT, M. AMIN  
 TITLE OF INVENTION: HUMAN CR3a/b HETERODIMERS  
 NUMBER OF SEQUENCES: 12  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/78, 871  
 FILING DATE: 16-JUN-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 539, 842  
 FILING DATE: 18-JUN-1990  
 APPLICATION NUMBER: 212, 573  
 FILING DATE: 28-JUN-1988  
 SEQ ID NO: 2:  
 LENGTH: 1152  
 5424399-2

Query Match 98.8%; Score 5808.5; DB 6; Length 1152;  
 Best Local Similarity 98.6%; Pred. No. 0;  
 Matches 1121; Conservative 8; Mismatches 7; Indels 1; Gaps 1;  
 QY 1 FNDITENAMTFOENARFGSGSVVLOGSRVVGAPQETIVANQSGSLYCCDYSGSCSEPI 60  
 Db 17 FNDITENAMTFOENARFGSGSVVLOGSRVVGAPQETIVANQSGSLYCCDYSGSCSEPI 76  
 QY 61 RLQVPVAVNMSLGLSLAATTSPPQLACGPTVHQTCEMNTYVKGFLFGSNLRQOPQ 120  
 Db 77 RLQVPVAVNMSLGLSLAATTSPPQLACGPTVHQTCEMNTYVKGFLFGSNLRQOPQ 136  
 QY 121 PPEALRGCPQEDSDIAFLIDGSGSIIIPHDFRMKELVSTIMEOLKSKTLPSLMQYSEEP 180  
 Db 137 PPEALRGCPQEDSDIAFLIDGSGSIIIPHDFRMKELVSTIMEOLKSKTLPSLMQYSEEP 196  
 QY 181 RHFTFEFONNPPRSLVPIPTOLLRTHTATGLRKVVRBELFITNGARKNAKILFLL 240  
 Db 197 RHFTFEFONNPPRSLVPIPTOLLRTHTATGLRKVVRBELFITNGARKNAKILFLL 256  
 QY 241 TDGEKFGDPLGYEDVIELDRREGVIRYVLGFGDAFRSEKSHOELENTYASKPRDHVFOAN 300  
 Db 257 TDGEKFGDPLGYEDVIELDRREGVIRYVLGFGDAFRSEKSHOELENTYASKPRDHVFOAN 316  
 QY 301 NFEALKTIVQOLREKIFALIEGTQTGSSSSPEHEMSQEGFSAITNSGPLLSTVGSYDMAG 360  
 Db 317 NFEALKTIVQOLREKIFALIEGTQTGSSSSPEHEMSQEGFSAITNSGPLLSTVGSYDMAG 376  
 QY 361 GVFLYTSKEKSTFINMRVSDMNDAYLGYAAIILNRVOSVLGAPRYOHGLVAMFR 420  
 Db 377 GVFLYTSKEKSTFINMRVSDMNDAYLGYAAIILNRVOSVLGAPRYOHGLVAMFR 436  
 QY 421 QNTGMSNANVKGTQIGAYGASLGVDSVDSNGSTDLVLIGAPHYEQRGGQVSCPL 480  
 Db 437 QNTGMSNANVKGTQIGAYGASLGVDSVDSNGSTDLVLIGAPHYEQRGGQVSCPL 496  
 QY 481 PRGQARWQCDAYLYGEGQGPWGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAAYLF 540

Db 497 PRG-RARWQCDAYLYGEGQGPWGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAAYLF 555  
 QY 541 HGTSGSGISPSHSORLQAGSLSPRLQYFGQSLSGGODLTMQDGLVDTLVGAGQHVLLLRQ 600  
 Db 556 HGTSGSGISPSHSORLQAGSLSPRLQYFGQSLSGGODLTMQDGLVDTLVGAGQHVLLLRQ 615  
 QY 601 PVLKVAIMEFNBREVARVFECDNDQVVKKEAGEVRCVLAHQKSTRDLRREGQISVVT 660  
 Db 616 PVLKVAIMEFNBREVARVFECDNDQVVKKEAGEVRCVLAHQKSTRDLRREGQISVVT 675  
 QY 661 YDLALDSGRPHSRVAVNEKNSRRROTQVGLTQTCETLKLQPLNCLBPPVSIYLRNLF 720  
 Db 676 YDLALDSGRPHSRVAVNEKNSRRROTQVGLTQTCETLKLQPLNCLBPPVSIYLRNLF 735  
 QY 721 SLVGTPLSAFNGRLPYLAEDAORLFTALPPEKNCNDNICODDLSITSPMSLDCLVVG 780  
 Db 736 SLVGTPLSAFNGRLPYLAEDAORLFTALPPEKNCNDNICODDLSITSPMSLDCLVVG 795  
 QY 781 GPREFNVTVVRNDEGDSYRTQVTFEFPPLDLSYRKVSTLQONRSORSWRLACESASTEV 840  
 Db 796 GPREFNVTVVRNDEGDSYRTQVTFEFPPLDLSYRKVSTLQONRSORSWRLACESASTEV 855  
 QY 841 SGALKSTSCSINHPIPPENSEVTENTTPYVDSKASLGKLLKANTSENMPRTYKTEP 900  
 Db 856 SGALKSTSCSINHPIPPENSEVTENTTPYVDSKASLGKLLKANTSENMPRTYKTEP 915  
 QY 901 QLELPVKYAVYVVTSHGVTSTKYLNFASSENTSRVMQHOYQVSNLQGRSLPISLVLPV 960  
 Db 916 QLELPVKYAVYVVTSHGVTSTKYLNFASSENTSRVMQHOYQVSNLQGRSPISLVLPV 975  
 QY 961 RLNQYIWMRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCISAVCQRIQCDIP 1020  
 Db 976 RLNQYIWMRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCISAVCQRIQCDIP 1035  
 QY 1021 FPGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVSFTLLPGQGAFAVRSOTET 1080  
 Db 1036 FPGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVSFTLLPGQGAFAVRSOTET 1095  
 QY 1081 KVEPFEVNPPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1137  
 Db 1096 KVEPFEVNPPLIVGSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1152  
 RESULT 13  
 US-08-476-062A-44  
 Sequence 44, Application US/08476062A  
 Patent No. 5877275  
 GENERAL INFORMATION:  
 APPLICANT: Arnaout, M. Amin  
 TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY  
 RESPONSES WITH BETA2 INTEGRINS  
 NUMBER OF SEQUENCES: 53  
 CORRESPONDENCE ADDRESS:  
 ADDRESSER: Fish & Richardson P. C.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: US  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: Windows95  
 SOFTWARE: Pasteo for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/476,062A  
 FILING DATE: 07-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/216,081  
 FILING DATE: 21-MAR-1994  
 APPLICATION NUMBER: 07/637,830  
 FILING DATE: 04-JAN-1991  
 APPLICATION NUMBER: 07/539,842

FILING DATE: 18-JUN-1990  
 APPLICATION NUMBER: 07/212,573  
 FILING DATE: 28-JUN-1988  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Freeman, John W.  
 REGISTRATION NUMBER: 29,066  
 REFERENCE/DOCKET NUMBER: 00786/068003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEEX: 200154  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1163 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-476-062A-44

very Match 58.6%; Score 3446; DB 2; Length 1163;  
 est Local Similarity 60.5%; Pred. No. 4,3e-278;  
 Matches 683; Conservative 143; Mismatches 297; Indels 6; Gaps 4;

QY 1 PNLDTENAMTFOENARFGOSVVOLOGSRVYVGAPOEIVAAAGSGSLYCCDYSTGSCPEI 60  
 DB 20 FNLDTBELTFRVDSAGFGDSVVOYANSWVVGAPOKITANQGTGLYCCGYSTGACEPI 79  
 QY 61 RLOVPEAVNMSLGLSLAATSPPOLLAGCPTVYQTCSEMTYVYVGLFGLSGSNRQOPK 120  
 DB 80 GLOVPEAVNMSLGLSLAATSPPOLLAGCPTVYHBCGRMYTLGLFGLSPT--QLTOR 137  
 QY 121 PPEALRGCPQEDSDIAFLIDSGSIIIPDFRMKELVSTIMEQLKSKTLFSLMYSEEF 180  
 DB 138 LPVSRQCPEQEOIVFLIDSGSISRNPAFWNPFRAVISOGRSTQSLMKNKF 197  
 QY 181 RIHTFEFQNNPRLIPIITOLLERTHTATGLRKRYVRELENTNGARKNAFKIIFL 240  
 DB 198 QTHTFEEFRTSNPLSLASVHQLGFTYATAIQNVVHRLFHASYGARDATKILIVI 257  
 QY 241 TDGKFGDPYGEVIVIELREGIVRYVLGFGDAFRSEKROELNTYASPPRHVQAN 300  
 DB 258 TDGKFGDSDLDYKOVIMADAGIIRAIQVGLAFQNRNSWKEINDASKPSOEHKVE 317  
 QY 301 NFEALKTVOQLREKIFAIEGTOTGSSSFEHENSQEGFSAITSNGPLSTVGSYDMAG 360  
 DB 318 DFDALKOIQNLKFKIFAIEGTETSSSELEMAQEGFSAVFPDGPVLGAVGSFTWGC 377  
 QY 361 GVLPTYSKESTFINMTRVDSMDNDATVLAALILNNRQSVLGLAPRYOHTGLVMEF 420  
 DB 378 GAFLYPPNMSPTFIMSGQENVDMRDSVLGYSTELAKGVQSVLGLAPRYOHTGKAVIFT 437  
 QY 421 QNTGMSNNANVKGTQIAGFYGASLGSVDVDSNGSTLVLIIGAPHYEORGGQVSCPL 480  
 DB 438 QVSTQMMKAEVITGTQISYFGASLGSVDVDTDSITLVLIIGAPHYEORGGQVSCPL 497  
 QY 481 PRCGRARMOCDVAVLYGEGQPMWGFAGALTYLGDVNDKLTVAIIGAPEGEDNRGAVYLF 540  
 DB 498 PRGWR-RMWCDVAVLYGEGQPMWGFAGALTYLGDVNDKLTVAIIGAPEGEDNRGAVYLF 556  
 QY 541 HGTSGSISISHSRINGSLKSLPQLYFGGSLSGGDLTMDGLVDLTVGAGQAVLLRSQ 600  
 DB 557 HGVLGPEISISHSQRILASQSLSRQLYFGQALSGGDLTMDGLVDLAVGARGQVLLLTR 616  
 QY 601 PVLRYKAIIMEFNPREVARNFECDQVVGKGEVAVRCLHVOSTDRRREGQIOSVVT 660  
 DB 617 PVLWVGSMQFIPAIERISRAPECEQVASECTLVQSNICLIYDKRSKNLLGSRDLOSST 676  
 QY 661 YDLALDSGRPHSRAVFNENKSTRQTOVLGTOTCECLKQLFNCIETDEPVSPIVRLNF 720  
 DB 677 LDALDLGRISPRATFETKQRSLSRVRYGLKAKHGENFILLPSCEVEDSVPTTLRLNF 736  
 QY 721 SLVGTPLSAGNLRPVLAEDQRLFTALFPEKKGNDNITCODDLSTTFSPMSIDCLVVG 780

DB 737 TLVGPDLAFLRNLRLMALLAQRVFTASLPFEKNGCAGDHIQDNLGISPSFGLKSLVVG 796  
 QY 781 GPREFVNTVVRNDGSDSYRTOVTFEFPDLISYRKVSTLONORSORSMWLACASSTEV 840  
 DB 797 SNLELAEVWVWMDGEDSTGTTTFSHPAGLSRYVABEQOQLASLHITCSAPVG-- 854  
 QY 841 SGALKSTSGSINHPIEPENSEVTFNITPDVDSKASLGNKLLKANTYSENNMRTKTER 900  
 DB 855 SGTWSTSCINHLIFRGAGQITFLATPDVSPCAVVGDRLLLTAVNSSENNTRTSKTTF 914  
 QY 901 QLELPVKYAVYVYVYSHGVSTKTLNFTAS-ENTSRVMOHOYQVSNIGQSLPSLVLYP 959  
 DB 915 QLELPVKYAVYVYVYSHGVSTKTLNFTAS-ENTSRVMOHOYQVSNIGQSLPSLVLYP 974  
 QY 960 VRLNQTVMIDRPQVTFSENLSSTCHKERLPSSHDFLAELRKAPVYVNCISIAVQRIQCDI 1019  
 DB 975 VELNQEAVMWDVEVSHPOPSLSCSEKLAAPPASDLAIQKNPVLDCSIAGLRRCDV 1034  
 QY 1020 PPEGIOEFNATLKGNIISFDWYIKTSHNHLIVSTAELIENSVPFLPQOGAFVRSQTE 1079  
 DB 1035 PSFVSQBELDFTLKGNIISFGWVRQILQKKVSVSVVAEIFDTSVYSQLPQGEAFMRAQTT 1094  
 QY 1080 TKYEPREVPNPLIYGVSSVGLLLALITLALYKLGFRKQYKDMSE 1128  
 DB 1095 TVLEKTKVHNPTPLIVGSSIGGLLLALITLAVLYKVGFFRKQYKEMME 1143

RESULT 14  
 PCT-US96-01314-44  
 Sequence 44, Application PC/TUS9601314  
 GENERAL INFORMATION:  
 APPLICANT: M. Amin Arsaout  
 TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN  
 TITLE OR INVENTION: ANTAGONISTS  
 NUMBER OF SEQUENCES: 78  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Fish & Richardson P.C.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: U.S.A.  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
 COMPUTER: IBM PS/2 Model 502 or 558x  
 OPERATING SYSTEM: MS-DOS (Version 5.0)  
 SOFTWARE: Wordperfect (Version 5.1)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/01314  
 FILING DATE: 30-JAN-96  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/380,167  
 FILING DATE: 30-JAN-95  
 ATTORNEY/AGENT INFORMATION:  
 NAME: John W. Freeman  
 REGISTRATION NUMBER: 29,066  
 REFERENCE/DOCKET NUMBER: 00786/267001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 542-5070  
 TELEFAX: (617) 542-8906  
 TELEEX: 200154  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1163  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 PCT-US96-01314-44

Query Match 58.6%; Score 3446; DB 5; Length 1163;  
 Best Local Similarity 60.5%; Pred. No. 4,3e-278;  
 Matches 683; Conservative 143; Mismatches 297; Indels 6; Gaps 4;

|    |      |   |      |
|----|------|---|------|
| Qy | 1    | FNLTEANMFOEAAFRFGSVWVQLOGSRVAVGAPOEIVAAANORSLVOCQVSTSSCEPI      | 60   |
| Db | 20   | FNLUTBELTFRVDSAGFSGSVVOYANVWVGAPOKIIAANOIGGLVOCYSTACEPI         | 79   |
| Qy | 61   | RLQVPEAVVNMVSLGLSLAATTSPOLLACPTVHQCSENTYVKGICPLFGSNLRQOQK       | 120  |
| Db | 80   | GLQVPEAVVNMVSLGLSLASTTSPOLLACPTVHHCGRNMVLTGLCFLLGPT--QLNQR      | 137  |
| Qy | 121  | FEPLRGCPQEDSDIAFLIDGSGSIIIPHDRMKELVSTIMEOLKKSXTLPSLMQSEEP       | 180  |
| Db | 138  | LPVROECPROBODIVELIDGSGSISRNPMATMMNVRVAVISOQRPSTOFSLMFSNKF       | 197  |
| Qy | 181  | RHTEPFKPFONNPPRELIPITQOLLGRTTATLAKVYRELFTNTNGARKKAPFILL         | 240  |
| Db | 198  | QTHTEEFERFRTSNPLSLASVHLOQFTTATAIQNVVHRLPHASVYGRRAPIKILVI        | 257  |
| Qy | 241  | TDEGEFGDPLGEBVIVELDREGIRVILGFGDGFSEKRSROELTVASKPRDHVFOAN        | 300  |
| Db | 258  | TDGKKGEDSLDYKQVIFMAAAGIRALIGVGLAFONRMSWEINDASKPSQEHIFVE         | 317  |
| Db | 301  | NPEALKTVQNLREKIFALIEGTQTGSSSSFEHEMSOEGFSAAITNSGPLLSTVSGYDMAG    | 360  |
| Db | 318  | DFDALKIQNLKKEKIFAIETGETTSSSSFELEMAOEGSAVFTPGPVLGAVGSGFTWSG      | 377  |
| Qy | 361  | GVELITYKESKSTFINMTRVDSOMNDALGTAALIIIRNVOSVILGAPRYOHTGLVANFR     | 420  |
| Db | 378  | GAFYLPNPMSPFTFMSQENVDMKDSYLGSTELAMKGQSVLVGAPPYQHTGAVLFT         | 437  |
| Qy | 421  | QNTGMESNNAVKTQIGAFGASLGVVDVDSNGSTDVLIGAPHYEEOTRGQVSVCL          | 480  |
| Db | 438  | QVSNQMRKMALEVITQIGSTFGASLGSVDVDTGSTDVLIGAPHYEDTRGGQVSVCL        | 497  |
| Qy | 481  | PRGORARWQCDVLYGEOGQPMWRFGAALTVLGDVNGDKLTDVAIGAPGEDNRRGAVYLF     | 540  |
| Db | 498  | PRGMR-RWMCDAVLYGEOGHPWGRFGAALTVLGDVNGDKLTDVIGAPGEENRGAVYLF      | 556  |
| Qy | 541  | HGTSGSGISPEHSQRINGKSLSPLOYFGGSLGGODLTMDGLVDTLVYAOCHVLLIASQ      | 600  |
| Db | 557  | HGVLGPSTSPHSQRINGQSLSRLOYFGGALSGGODLTODGLVDTLAVGARQVYLLRTR      | 616  |
| Qy | 601  | PVLKRAIMEBPPEVARNVFECDQOVVKEKEAGEVRVCLHWKSTRDLREGOIQSVYT        | 660  |
| Db | 617  | PVLWGVSMQIIPAEIRSAPECEQVVSQTLVQSNICLYIDKSKULLSGRDLQSSYT         | 676  |
| Qy | 661  | YDLALDSGRPHSRAVFNETKJNSTROQTQVLTQTCETIKLQLPNCIEDPVSPILRLNF      | 720  |
| Db | 677  | LDLALDPERLSPRATFOETKNRSLSRVRVGLKXHCENFILLPSCVEDSVPIITRLNF       | 736  |
| Db | 721  | SLVGTPLSAPGNLRPVLAEDQRLFTLAPPEKXCGNDNICODDLSITSPMSLDCLYVG       | 780  |
| Db | 737  | TLVGPFLPLAFNLRPMILAALQRFYLSLPEFKKCGADHICODNLGISPSFGLSLLVG       | 796  |
| Qy | 781  | GPREKNVTVYTRNCGDSYRQVTFPPLDLSYKXSTLONQSRQSRWLAACESSTEV          | 840  |
| Db | 797  | SNLEINAEVVMWNGEDSYGTTITFSHPAGLSTRVYABEGQQLSLHLTCDSPVGC--        | 854  |
| Qy | 841  | SGALKSTSCSINHDPENSEVTFNITFFVDSSKASIGNKLLKANTYSENNAPRNKTEF       | 900  |
| Db | 855  | SQGMWSTSCRINHILIFRGAQITFLAFVDVSPKAVLGDRLLLTANVSSENNPRKSTTF      | 914  |
| Qy | 901  | QLELPVKYAVTVVTSHGCVSTKYINLPAS--ENTSRVMOHOYOVSNIQORSPLISVLVP     | 959  |
| Db | 915  | QLELPVKYAVTVVSSHQFTKYINLFSESEKESHVAMHYQVNNLQGOCDLPSVINFWP       | 974  |
| Qy | 960  | VLNLTQVWDRPOVTFPSBNLSTOHTKERLPHSHDPLAELARKAPVNGSIANCQILQDDI     | 1019 |
| Db | 975  | VELNBEAAMWDEVSHPNPNSLRCSSEKIAPPASDFLAKQKPVLDGSIACLCPRCDV        | 1034 |
| Qy | 1020 | PFEGIOEEFNATLKGNIISFDVYITSHNHLLIYSTAELLFNDSVFITLLGQCAFVRSQTE    | 1079 |
| Db | 1035 | PSFSVQGBDLPTLKGNIISFGVNRQIIOKKYXSVSVSAEITTDISVYSQULGQGAFAHRAQTT | 1094 |
| Qy | 1080 | TKVEFEVVPNPLVLVGSSVGGILLALITBALYKLGFFKRYQKDMASE                 | 1128 |

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Db      1095 TYLEKTKYKNPTPLIVGSSIGGLLLALITAVLYKVGEFFKKOYMEEH   1143

RESULT 15
US-08-173-497-4
; Sequence 4, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vieren, Monica
; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEXFAX: 312-474-0448
; TEXELX: 25-3856
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1163 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-4

Query Match          58.2%; Score 3423; DB 1; Length 1163;
Best Local Similarity 60.2%; Pred. No. 3.5e-276;
Matches 680; Conservative 149; Mismatches 294; Indels    6; Gaps        4;
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Db 318 DFDALDIONQLKEKIFAIGTETITSSSFELEMAOEGFSAVFTPDGPVIGAVGSFTWSG 377  
Qy 361 GVEFLYTSKEKSTFINMTRVDSMDMADAYIAAAIILENRVQSLVLAGAPRYQHIGLVAMFR 420  
Db 378 GATLIPPNMSPFTINNSQENVMDRDSYLGSTELAMKGVQSLVLAGAPRYQHIGKAVIFI 437  
Qy 421 QNTGMWESNANVKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGGQVSVCP 480  
Db 438 QVSRQWRMKAEVIGTQIGSYFGASLCSVDVDTGSTDVLIGAPHYEQTRGGQVSVCP 497  
Qy 481 PRGQARWOCDAVLXGCGQPMGRFGAALTVDVNGDKLTDVAIGRGEEDNRGAAYLF 540  
Db 498 PRGMR-RMWCDVALYXGQHPWGRFGAALTVDVNGDKLTDVIGAPGEENRGAAYLF 556  
Qy 541 HGTSGSGISPSHSQRIAGSLSPRLQYFGQSLSGGQDLTMDGLVDLTVAGQGVYLLRSQ 600  
Db 557 HGVLGBSISPSHSQRIAGSLSPRLQYFGQSLSGGQDLTMDGLVDLTVAGQGVYLLRSQ 616  
Qy 601 PVLRYKAIMENPREVANVECNQYVKGKEAGEVRCILHVOKSTRDLREGQIQSVT 660  
Db 617 PVLWVGVMQFIPAEIPRSAFECEQVSEQTLVQSNICLYIDKRSKLLGSRLQSSVT 676  
Qy 661 YDLALDSGRPHSRVAVNETKSTRQOVUJGLTOTCTLKLQLPNCTEDPVSPVLRINF 720  
Db 677 LDIALAPGRISPRAIFQETIKRSLSRVYVGLKAKHCENFILLPSCEVDSVIPILRLNF 736  
Qy 721 SLVGTPLSAFAGNLRPVLAEDAQRLFTALPFEKKGCGNDNICODDLSTFSFMSJDCLVG 780  
Db 737 TLVGKPLAIFRNLRFMLAALAQRTASLPFEKKGCGADHICODNLGISFPGLKSLVVG 796  
Qy 781 GPREFNVTVTRNDGEDSYRTQVTFEFPPLDLYRKVSTLQNRQSRWLACESASSTEV 840  
Db 797 SNLELNAEVWVWMDGEDSYGTTITFSHPAGLSRYVAEGQKQGLRSLHLTC--CSAPVG 854  
Qy 841 SGALKSTSCSINHPIFENSEVFNITFEDVDSKSLGNKLLKANVTSENNMPRTNKEF 900  
Db 855 SGGTWSSTCRINHILFRGGAQITFLATFDVSPKAVGLDRLLLIANVSENNIPRTSKTIF 914  
Qy 901 QLELPVYAYVWVTSHTGVTSTKYLNTFTAS-ENTSRVMOHOYOVSNLQGRSLPISLVFLVP 959  
Db 915 QLELPVYAYVIVVSSHQRTKYLNFSESEBESHVAMHRYQVNNLQGRDLPVSNFVWP 974  
Qy 960 VRLNQTVIMDRPOVTFESNLSSTCHTKERLPSHSDFLAELRKAPVANCIAVCORIQC 1019  
Db 975 VELNQEAIVMDVEVSHPNPSLRCSSEKIAIPASDPLAHIOKNPVLDCSIAGCLRFRC 1034  
Qy 1020 PFGIOGEERNAATLKGNLSFDMYIKTSHNHLIYSTAIIENDSVFTLLPQGAFAVRSQTE 1079  
Db 1035 PSFSVOEELDFTLKGNLSFGWVRQIIOKKVSVSVVAEIIIPDTSVSQLPQDEAFMRAQTI 1094  
Qy 1080 TKVEPFEPVNPPLPLIVSSVGGLLLLALITAAALYKLGFFKROYKDMME 1128  
Db 1095 TVEKYVNHPIPLIVSSSIGGLLLALITAVLYKVGFFKROYKEMME 1143

Search completed: May 4, 2003, 13:39:15  
Job time : 23.3333 sec

GenCore version 5.1.4\_p5\_4578  
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OM protein - protein search, using SW model

Run on: May 4, 2003, 13:31:59 ; Search time 17.3333 Seconds  
(without alignments)  
1930.031 Million cell updates/sec

Title: US-09-902-481b-4

Perfect score: 5884

Sequence: 1 FNLDTENAMTFQENARFGQ.....FKRYKXDMMSGPGAPQ 1137

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents, AA:\*

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2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score  | Query Match | Length | ID                  | Description        |
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| 1          | 5882   | 99.5        | 1153   | 1 US-08-173-497-3   | Sequence 3, App11  |
| 2          | 5882   | 99.5        | 1153   | 1 US-08-286-889-3   | Sequence 3, App11  |
| 3          | 5882   | 99.5        | 1153   | 1 US-08-485-618-3   | Sequence 3, App11  |
| 4          | 5882   | 99.5        | 1153   | 2 US-08-362-652-3   | Sequence 3, App11  |
| 5          | 5882   | 99.5        | 1153   | 2 US-08-605-672-3   | Sequence 3, App11  |
| 6          | 5882   | 99.5        | 1153   | 2 US-08-482-293A-3  | Sequence 3, App11  |
| 7          | 5882   | 99.5        | 1153   | 2 US-08-943-363-3   | Sequence 3, App11  |
| 8          | 5882   | 99.5        | 1153   | 4 US-09-193-043-3   | Sequence 3, App11  |
| 9          | 5882   | 99.5        | 1153   | 4 US-09-688-307A-3  | Sequence 3, App11  |
| 10         | 5821.5 | 98.9        | 1152   | 2 US-08-476-062A-43 | Sequence 43, App1  |
| 11         | 5821.5 | 98.9        | 1152   | 6 PCT-US96-01314-43 | Sequence 43, App1  |
| 12         | 5821.5 | 98.9        | 1152   | 6 5424399-2         | Patent No. 5424399 |
| 13         | 3459   | 58.8        | 1163   | 2 US-08-476-062A-44 | Sequence 44, App1  |
| 14         | 3459   | 58.8        | 1163   | 5 PCT-US96-01314-44 | Sequence 44, App1  |
| 15         | 3459   | 58.8        | 1163   | 5 US-08-173-497-4   | Sequence 44, App1  |
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| 41 | 3217.5 | 54.7 | 1161 | 1 US-08-485-618-55  | Sequence 55, App1 |
| 42 | 3217.5 | 54.7 | 1161 | 1 US-08-362-652-55  | Sequence 55, App1 |
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## ALIGNMENTS

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RESULT 1
US-08-173-497-3
; Sequence 3, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vliet, Monica
; TITLE OF INVENTION: No. 5437958e1 Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO. 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-3
;
Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
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Db 17 FNLDTENAMTFQENARFGQSVVLOGSRVYVVGAPQEIYANQSGSLVYCDYSTGSCBPI 76
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DB 737 SLVGTPLSAFGNLRPVLAEDQRLFTALPPEKKGNDNICODDLSTFSFMSIDCLVNG 796
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DB 797 GPREFNVTAVRNDGEDSYRTQVTFPPDLDSYRKVSTLQONORSQSRWLACBSASTEV 856
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DB 977 RLNQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELKAPVNVCSIAVCRIOQDIP 1036
QY 1021 FPEIIOEFNATTLKGNLSFDWYIKTSHNHLIVSTAELFNDVSFTLLPGGAFYRSQTER 1080
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DB 1097 KVPPEFVNPPLPIVGSVGGGLLITLALITLALYKLGFFKQOYKDMMSGGPBGABEPQ 1153

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RESULT 2
US-08-286-889-3
; Sequence 3, Application US/08286889
; Patent No. 5470953
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Mich
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/286,889
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: P38,659
; REFERENCE/DOCKET NUMBER: 27866/32168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-286-889-3
Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
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DB 197 RIHFTKEFQNNPRLSLIKPITOLLGRTHATGRLKRVRELFINITGARKNAFKILFLL 256
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DB 257 TDEKFGDPLGYEDVIPLEDRREGVIRYVIGVDAFRSEKSRQELNTVASKRPDRHVOIN 316
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DB 317 NFEALKTIONOLREKIFAIEGTOTGSSSSFEHEMSOGFSAALITNSGPIJLSTVGSYDMAG 376

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QY 661 YDLALDSGRPHSAVNETKSTRROTQVGLTQTCETLKLQIPNCIEDPVSPIVRLNF 720
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DB 737 SLVGTPLSAFAGNLRLVLAEDAOQLFTALPFEKNCNGNDNICODDLSTFSFMSLDCIYVG 796
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DB 797 GPREPNTVTVNRNDEGDSYRTQVTFPPPLDLSTRKYSTLONORSQSRWLACESASTEV 856
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DB 1097 KVEPFEVNPPLPIVSSVGGLLLALITAAIYKLGFFKQYKQDMSSEGPPGAEPQ 1153

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RESULT 3
US-08-485-618-3
Sequence 3, Application US/08485618
Patent No. 5728533
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vlieten, Monica
TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,618
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: William J. Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32797
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-618-3
Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
QY 1 FNDLENAMTFOENARFGQSVVOLQSGRVVVGAPQEIYAANORGLXYOCYSTGSCBPI 60
DB 17 FNDLENAMTFOENARFGQSVVOLQSGRVVVGAPQEIYAANORGLXYOCYSTGSCBPI 76
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DB 197 RIHFTPEKFNPNPRLSLIKPIITOLGRTHTATGLRKVRELFNITNGARKNAFKILFLL 256
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841 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGNKLLKAMVTSNNMPTNKTEP 900
857 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGNKLLKAMVTSNNMPTNKTEP 916
QY 901 QLELPVKYANVYVNTSGVSTKYLINFASENTSRWMOHOYQVSNLQGRSLPISLVFLVPV 960
Db 917 QLELPVKYANVYVNTSGVSTKYLINFASENTSRWMOHOYQVSNLQGRSLPISLVFLVPV 976
QY 961 RLNGQYIMDRPOYTFSENLSSTGCHTERLPSHSDFLAEKRAPVNCISIVCORIQDIP 1020
Db 977 RLNGQYIMDRPOYTFSENLSSTGCHTERLPSHSDFLAEKRAPVNCISIVCORIQDIP 1036
QY 1021 FPGIOEFNATLKGNLSFDWYIKTSHNHLIIVSTAELLFNDSVFTLLPGQGAFTVRSQTEP 1080
Db 1037 FPGIOEFNATLKGNLSFDWYIKTSHNHLIIVSTAELLFNDSVFTLLPGQGAFTVRSQTEP 1096
QY 1081 KXEPFEPNPLPLIVGSSVGGILLIITALYKLGFFKQYKDMSEGPPGAEPQ 1137
Db 1097 KXEPFEPNPLPLIVGSSVGGILLIITALYKLGFFKQYKDMSEGPPGAEPQ 1153

RESULT 4
US-08-362-652-3
; Sequence 3, Application US/08362652
; Patent No. 5766850
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van der Vlieten, Monica
; TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,652
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/286,889
; FILING DATE: 5-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.

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;
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/32391
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-362-652-3

Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best local similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1 FNIDTENAMTFQENARFGQSVVOLQSGRVVVGAPQEIYAANQSGSLYOCYSTGSCBPI 60
Db 17 FNIDTENAMTFQENARFGQSVVOLQSGRVVVGAPQEIYAANQSGSLYOCYSTGSCBPI 76
QY 61 RLQVPYEAVMNSIGSLAATTSBPOLLACGPTVHOTCSENTYVKGLCFPGSNLRQOPK 120
Db 77 RLQVPYEAVMNSIGSLAATTSBPOLLACGPTVHOTCSENTYVKGLCFPGSNLRQOPK 136
QY 121 FPRALRGCEQEDSDIAFLIDSGSIIIPHFRMKVSVTVMEQLKKSKTLFSLMOYSEBF 180
Db 137 FPRALRGCEQEDSDIAFLIDSGSIIIPHFRMKVSVTVMEQLKKSKTLFSLMOYSEBF 196
QY 181 RHIFTEKEFQNNPNRSLIKPITOLLGRTHATGRLKRVRELFNTNGARKQAFLIPL 240
Db 197 RHIFTEKEFQNNPNRSLIKPITOLLGRTHATGRLKRVRELFNTNGARKQAFLIPL 256
QY 241 TDGEKGDPLGYBDVYPELDREGVIRYVGVGDARFSEKSRQELNTVASKPRDHYFOIN 300
Db 257 TDGEKGDPLGYBDVYPELDREGVIRYVGVGDARFSEKSRQELNTVASKPRDHYFOIN 316
QY 301 NFEALKTIONOLREKIFALEGTQTSSTSSFEHMSQEGSAITNSGPTLVGSYDMAG 360
Db 317 NFEALKTIONOLREKIFALEGTQTSSTSSFEHMSQEGSAITNSGPTLVGSYDMAG 376
QY 361 GVFLYTSKEKSTFINNTRVDSQMDNDAVLYGAAAILLRNVQSLVYGAPRYOHIGLVAMFR 420
Db 377 GVFLYTSKEKSTFINNTRVDSQMDNDAVLYGAAAILLRNVQSLVYGAPRYOHIGLVAMFR 436
QY 421 QNTGMESNANVKTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEDTRGGQVSVCP 480
Db 437 QNTGMESNANVKTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEDTRGGQVSVCP 496
QY 481 PPGORARMCDAVLYGEOGQPMGRFGAALTLYGDNVGLTVOVAGAPSEEDNRGAVYLF 540
Db 497 PPGORARMCDAVLYGEOGQPMGRFGAALTLYGDNVGLTVOVAGAPSEEDNRGAVYLF 556
QY 541 HGTSGSISPSHSQRIAGSLKSLPRLQYFGOSLSGGDLTMDGLVLDLTVGAQGHVLLRSQ 600
Db 557 HGTSGSISPSHSQRIAGSLKSLPRLQYFGOSLSGGDLTMDGLVLDLTVGAQGHVLLRSQ 616
QY 601 PVLRYKAIMFENPREVARVNEECNDQVVKKEAGEVAVCLHVOKSTRDRLREGIOISVVT 660
Db 617 PVLRYKAIMFENPREVARVNEECNDQVVKKEAGEVAVCLHVOKSTRDRLREGIOISVVT 676
QY 661 YDLALDSGRPHSAVFNENKSTRQTOVLGLTQTCETLKLQPLNCIEDPVPVILRLNF 720
Db 677 YDLALDSGRPHSAVFNENKSTRQTOVLGLTQTCETLKLQPLNCIEDPVPVILRLNF 736
QY 721 SLVGTPLSAFNGRLPVLAEQAORLFTALFPPEKKGNDNICODDLSTTFSPMSIDCLVVG 780
Db 737 SLVGTPLSAFNGRLPVLAEQAORLFTALFPPEKKGNDNICODDLSTTFSPMSIDCLVVG 796
QY 781 GPREFNVTYVRNDEGDSYRTQVTFPPPLDLSYRKVSTLONORSOREWRLACASASTEV 840

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Db 797 GREFNVTVVANDGEDSRYTQVTFPPFLDLSYRKVSTLQONORSQMSWLACESASTEV 856  
 Qy 841 SGALKSTSCSINHPIFPESEVTFNTTFVDKASLGNKLLKANTSENMPRTKTEF 900  
 Db 857 SGALKSTSCSINHPIFPESEVTFNTTFVDKASLGNKLLKANTSENMPRTKTEF 916  
 Qy 901 QLELPVKAVVYVWVTSYGVSTKYLNTFTASENTRVWQHGYVSNLQORSLPISLVLPV 960  
 Db 917 QLELPVKAVVYVWVTSYGVSTKYLNTFTASENTRVWQHGYVSNLQORSLPISLVLPV 976  
 Qy 961 RINQYIWMRPVOTFSENLSSTCHTERLPSSHDFLAELRKAPVNVCSIAVCORIQCDIP 1020  
 Db 977 RINQYIWMRPVOTFSENLSSTCHTERLPSSHDFLAELRKAPVNVCSIAVCORIQCDIP 1036  
 Qy 1021 PFGIOEPNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDSVFTLLPGOGAFVRSQTEF 1080  
 Db 1037 PFGIOEPNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDSVFTLLPGOGAFVRSQTEF 1096  
 Qy 1081 KYEPFVNPPLIVGSSVGGLLLLALITAAIYKLGFPKQYKDMSEGGPPGAEPQ 1137  
 1097 KYEPFVNPPLIVGSSVGGLLLLALITAAIYKLGFPKQYKDMSEGGPPGAEPQ 1153

## RESULT 5

US-08-605-672-3  
 : Sequence 3, Application US/08605672  
 : Patent No. 5817515  
 : GENERAL INFORMATION:  
 : APPLICANT: Gallatin, W. Michael  
 : APPLICANT: Van der Vieren, Monica  
 : TITLE OF INVENTION: No. 5817515el Human 2 Integrin Alpha Subunit  
 : NUMBER OF SEQUENCES: 103  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
 : STREET: 233 South Wacker Drive, 6300 Sear Tower  
 : CITY: Chicago  
 : STATE: Illinois  
 : COUNTRY: United States  
 : ZIP: 60606-6402  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patentin Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/605,672  
 : FILING DATE:  
 : CLASSIFICATION: 530  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 08/173,497  
 : FILING DATE: 23-DEC-1993  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 08/286,889  
 : FILING DATE: 5-AUG-1994  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 08/362,652  
 : FILING DATE: 21-DEC-1994  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Williams Jr., Joseph A.  
 : REGISTRATION NUMBER: 38,659  
 : REFERENCE/DOCKET NUMBER: 27866/32684  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 312-474-6300  
 : TELEFAX: 312-474-0448  
 : TELEX: 25-3856  
 : INFORMATION FOR SEQ ID NO: 3:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 1153 amino acids  
 : TYPE: amino acid  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: protein  
 : US-08-605-672-3

Query Match 99.5%; Score 5852; DB 2; Length 1153;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FNLDTENMNTFQENRARGQSVYVQVQSGRVYVGAQOEIVYANQORSLVYCCDYSTGSCBP 60  
 Db 17 FNLDTENMNTFQENRARGQSVYVQVQSGRVYVGAQOEIVYANQORSLVYCCDYSTGSCBP 76  
 Qy 61 RLOVPEAVNMSLGLSLAATTSPPQLACGPTVHQCSENTVYKGLCFGSLNRQOPK 120  
 Db 77 RLOVPEAVNMSLGLSLAATTSPPQLACGPTVHQCSENTVYKGLCFGSLNRQOPK 136  
 Qy 121 PFEALRGCPQEDSDIAFLIDSGSGSIIIPHDFRMKMVSIVMQLKSKTLPJLMQSEEF 180  
 Db 137 PFEALRGCPQEDSDIAFLIDSGSGSIIIPHDFRMKMVSIVMQLKSKTLPJLMQSEEF 196  
 Qy 181 RIHFTFKFQNNPNRSLIKPITQLGRTHTATGLRKVRELFNITNGARKNAFKILPLL 240  
 Db 197 RIHFTFKFQNNPNRSLIKPITQLGRTHTATGLRKVRELFNITNGARKNAFKILPLL 256  
 Qy 241 TDGKRGDPLGVEDYIPELDREGVIRYVGVGDARFSEKSRQELMTVASKPPRDHVFQIN 300  
 Db 257 TDGKRGDPLGVEDYIPELDREGVIRYVGVGDARFSEKSRQELMTVASKPPRDHVFQIN 316  
 Qy 301 NFEALKTIONQUREKIPIAIEGTQTGSSSFEHEMSEQESAAITNSGPLSTVGSYDMAG 360  
 Db 317 NFEALKTIONQUREKIPIAIEGTQTGSSSFEHEMSEQESAAITNSGPLSTVGSYDMAG 376  
 Qy 361 GVPLYTSKESKSTFINMTVRDSDMDAYIGYAAAILLRNVQSLVIGAPRYOHIGVAMFR 420  
 Db 377 GVPLYTSKESKSTFINMTVRDSDMDAYIGYAAAILLRNVQSLVIGAPRYOHIGVAMFR 436  
 Qy 421 QNTGMESNANKQVQIGAYFGASLCSVVDVNSGSTDLVLIAPHYEOTRGQVSVCL 480  
 Db 437 QNTGMESNANKQVQIGAYFGASLCSVVDVNSGSTDLVLIAPHYEOTRGQVSVCL 496  
 Qy 481 PGGORARQCDAVLVGEQGPWGRFGAALTIVGDVNGDKLTVAIGAPEEDNRGAVYLF 540  
 Db 497 PGGORARQCDAVLVGEQGPWGRFGAALTIVGDVNGDKLTVAIGAPEEDNRGAVYLF 556  
 Qy 541 HGTSGSGISPSHSORIASKLSPLQVFGQSLSGCDLTMDGLVDTLVAQGHVILLRSQ 600  
 Db 557 HGTSGSGISPSHSORIASKLSPLQVFGQSLSGCDLTMDGLVDTLVAQGHVILLRSQ 616  
 Qy 601 PVLRYKALMEFNPRAVAFECNDQVYVKGKAGEVRCVLAHQKSTRDLRSGQIQSVYT 660  
 Db 617 PVLRYKALMEFNPRAVAFECNDQVYVKGKAGEVRCVLAHQKSTRDLRSGQIQSVYT 676  
 Qy 661 YDLALDSGRPHSRAVENETKSTRQTOVLGLTOTCETLKLQLPNCIEDPVPPIVRLNF 720  
 Db 677 YDLALDSGRPHSRAVENETKSTRQTOVLGLTOTCETLKLQLPNCIEDPVPPIVRLNF 736  
 Qy 721 SLVGTPLSAFGNLRPYLAEDAQRLLFTALFPPEKNCNDNICDDLSITSPFSLDLVVG 780  
 Db 737 SLVGTPLSAFGNLRPYLAEDAQRLLFTALFPPEKNCNDNICDDLSITSPFSLDLVVG 796  
 Qy 781 GREFNVTVVANDGEDSRYTQVTFPPFLDLSYRKVSTLQONORSQMSWLACESASTEV 840  
 Db 797 GREFNVTVVANDGEDSRYTQVTFPPFLDLSYRKVSTLQONORSQMSWLACESASTEV 856  
 Qy 841 SGALKSTSCSINHPIFPESEVTFNTTFVDKASLGNKLLKANTSENMPRTKTEF 900  
 Db 857 SGALKSTSCSINHPIFPESEVTFNTTFVDKASLGNKLLKANTSENMPRTKTEF 916  
 Qy 901 QLELPVKAVVYVWVTSYGVSTKYLNTFTASENTRVWQHGYVSNLQORSLPISLVLPV 960  
 Db 917 QLELPVKAVVYVWVTSYGVSTKYLNTFTASENTRVWQHGYVSNLQORSLPISLVLPV 976  
 Qy 961 RINQYIWMRPVOTFSENLSSTCHTERLPSSHDFLAELRKAPVNVCSIAVCORIQCDIP 1020  
 Db 977 RINQYIWMRPVOTFSENLSSTCHTERLPSSHDFLAELRKAPVNVCSIAVCORIQCDIP 1036

QY 1021 FFGIOEEFNATLKGNLSFDMYIKTSHNHLIIIVSTAELIFNDVSFTLLPGQAFVRSQET 1080  
DB 1037 FFGIOEEFNATLKGNLSFDMYIKTSHNHLIIIVSTAELIFNDVSFTLLPGQAFVRSQET 1096  
QY 1081 KYEPFEVNPPLIIVGSSVGGLLLLALITAAKYLGFEKKOYKDMSEGGPPGAEPQ 1137  
DB 1097 KYEPFEVNPPLIIVGSSVGGLLLLALITAAKYLGFEKKOYKDMSEGGPPGAEPQ 1153

## RESULT 6

US-08-482-293A-3  
Sequence 3, Application US/08482293A  
Patent No. 5831029  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Van der Vliet, Monica  
TITLE OF INVENTION: No. 5831029el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 103  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, 6300 Sear Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/482,293A  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/173,497  
FILING DATE: 23-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/286,889  
FILING DATE: 5-AUG-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/362,652  
FILING DATE: 21-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27866/32684  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1153 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-482-293A-3

Query Match 99.5%; Score 5852; DB 2; Length 1153;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1 FNDTGNAMTFQENARFGQSVVLOGSRVVAPOEIVANORGSIXQCDYSTGSCPT 60  
DB 17 FNDTGNAMTFQENARFGQSVVLOGSRVVAPOEIVANORGSIXQCDYSTGSCPT 76  
QY 61 RLQVPEAVNMSIGLSIAATSPPOLIACGPTVHQCSENTYVKGICFLFGSNLRQOPQK 120  
DB 77 RLQVPEAVNMSIGLSIAATSPPOLIACGPTVHQCSENTYVKGICFLFGSNLRQOPQK 136  
QY 121 FPEALGCGPOBDSDIAPLIDGSGSIIIPHDFRRKKEWSTVMEQLKSKTFLSIMOYSEEP 180

DB 137 FPEALGCGPOBDSDIAPLIDGSGSIIIPHDFRRKKEWSTVMEQLKSKTFLSIMOYSEEP 196  
QY 181 RHIFTEKFEONPNPRLIKPITOLLGRTHTATGARKVRELFNITNGARKNAFKLLFLL 240  
DB 197 RHIFTEKFEONPNPRLIKPITOLLGRTHTATGARKVRELFNITNGARKNAFKLLFLL 256  
QY 241 TDGEKFPDPLGYEDVLPDLRSGVIRYVIGVDAPRSEKROELNTVASKPPRDHVFQIN 300  
DB 257 TDGEKFPDPLGYEDVLPDLRSGVIRYVIGVDAPRSEKROELNTVASKPPRDHVFQIN 316  
QY 301 NFPAALTIQNLREKIFALEGTQGTSSSFHEHMSQEGSAITSNCPILSTYGSIDMG 360  
DB 317 NFPAALTIQNLREKIFALEGTQGTSSSFHEHMSQEGSAITSNCPILSTYGSIDMG 376  
QY 361 GVFLYTSKESKSTFINNTRDSDMDNDAYLGYAAAILIRNVQSLVGAAPRYOHIGLVAMFR 420  
DB 377 GVFLYTSKESKSTFINNTRDSDMDNDAYLGYAAAILIRNVQSLVGAAPRYOHIGLVAMFR 436  
QY 421 ONTGMMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 480  
DB 437 ONTGMMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 496  
QY 481 PRGQARWOCDAVLVGEQCPWGRFGAALTIVGVNGDKLTVYAIGAPGEBDNRAVYLP 540  
DB 497 PRGQARWOCDAVLVGEQCPWGRFGAALTIVGVNGDKLTVYAIGAPGEBDNRAVYLP 556  
QY 541 HGTSGSGISPSHSORFASGLSPRLQYFGOSLSGGODLMDGLVDTLVAQGVLLLRQ 600  
DB 557 HGTSGSGISPSHSORFASGLSPRLQYFGOSLSGGODLMDGLVDTLVAQGVLLLRQ 616  
QY 601 PVLRYVAIMEFNPREVARNVPECNDQVVKKEAGEVRYCLAVQKSTRDLRREGQIQSVVT 660  
DB 617 PVLRYVAIMEFNPREVARNVPECNDQVVKKEAGEVRYCLAVQKSTRDLRREGQIQSVVT 676  
QY 661 YDLALDSGRPHSRAYVNETKSTRQTVLGITQTCETLKLQLPNCIEPVPSPVYLRNLF 720  
DB 677 YDLALDSGRPHSRAYVNETKSTRQTVLGITQTCETLKLQLPNCIEPVPSPVYLRNLF 736  
QY 721 SLVGTPLSAFGLRPLAADAORLFLALPFPEKNCNDNICODDISITSPMSLDCLVVG 780  
DB 737 SLVGTPLSAFGLRPLAADAORLFLALPFPEKNCNDNICODDISITSPMSLDCLVVG 796  
QY 781 GPREFNVTYVNDGEDSYRTQVTFEFPDLISYRKVSTLQONRSQSRMLACESASTEV 840  
DB 797 GPREFNVTYVNDGEDSYRTQVTFEFPDLISYRKVSTLQONRSQSRMLACESASTEV 856  
QY 841 SGALKSTSCSINHPIFPENSEVTFTNITFDVDSKASIGNLLKANTVSENNMPTKTIEF 900  
DB 857 SGALKSTSCSINHPIFPENSEVTFTNITFDVDSKASIGNLLKANTVSENNMPTKTIEF 916  
QY 901 QLELPKYAVVWVWVSHGSTKYLNFTASENTSRVWQHOYVSNIGORSPLSLVFLV 960  
DB 917 QLELPKYAVVWVWVSHGSTKYLNFTASENTSRVWQHOYVSNIGORSPLSLVFLV 976  
QY 961 RLNQTVIMDRPQVTESENLSCTCHTERLPSSHDFLAELRKA PVVNCSTAVCORIQCDIP 1020  
DB 977 RLNQTVIMDRPQVTESENLSCTCHTERLPSSHDFLAELRKA PVVNCSTAVCORIQCDIP 1036  
QY 1081 KYEPFEVNPPLIIVGSSVGGLLLLALITAAKYLGFEKKOYKDMSEGGPPGAEPQ 1137  
DB 1097 KYEPFEVNPPLIIVGSSVGGLLLLALITAAKYLGFEKKOYKDMSEGGPPGAEPQ 1153

RESULT 7  
US-08-943-363-3  
Sequence 3, Application US/08943363  
Patent No. 5837478  
GENERAL INFORMATION:

```

APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5837478e1 Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Bortun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,363
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/1173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-943-363-3

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Query Match 99.5%; Score 5852; DB 2; Length 1153;  
 Best Local Similarity 99.2%; Pted. No. 0;  
 Matches 118; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

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QY 1 FNDTEANMTFOENARFGQSVVQLOGSRVYVGAPOEIVANORGSLYOCDSYTGSCPEI 60
DB 17 FNDTEANMTFOENARFGQSVVQLOGSRVYVGAPOEIVANORGSLYOCDSYTGSCPEI 76
QY 61 RLOVPEAVNMSGLSLAATSPQQLACGPTVHQTSCENTVYKGLCFELGSLNRQOPQK 120
DB 77 RLOVPEAVNMSGLSLAATSPQQLACGPTVHQTSCENTVYKGLCFELGSLNRQOPQK 136
QY 121 FPPALRGCPEDSDIALILINGSGSIIPHDRRKKEWSTYMEOLKSKKTLFSLMQVSEEF 180
DB 137 FPPALRGCPEDSDIALILINGSGSIIPHDRRKKEWSTYMEOLKSKKTLFSLMQVSEEF 196
QY 181 RIHFTKEFPNNPRLILKPIITOLLGRTHTATGLRKVARELFNITNGARKNAFKILFL 240
DB 197 RIHFTKEFPNNPRLILKPIITOLLGRTHTATGLRKVARELFNITNGARKNAFKILFL 256
QY 241 TDEKEFGDPLGYEDVIPLELDEGVIRYVIGVDAFRSEKSRQELINTVASKRPDHYEQIN 300
DB 257 TDEKEFGDPLGYEDVIPLELDEGVIRYVIGVDAFRSEKSRQELINTVASKRPDHYEQIN 316
QY 301 NFPAKTIQOLREKTKAIGTQTGSSSSFEHEMSOGCFSAATISNCPPLISTVGSYDMAG 360
DB 317 NFPAKTIQOLREKTKAIGTQTGSSSSFEHEMSOGCFSAATISNCPPLISTVGSYDMAG 376

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QY 361 GVELYTSKEKSTFINMTTRVDSMDNDAYLGYAAIILRNRVOSLVLGAPRYOHIGLVAMFR 420
DB 377 GVELYTSKEKSTFINMTTRVDSMDNDAYLGYAAIILRNRVOSLVLGAPRYOHIGLVAMFR 436
QY 421 QNTGMESNANVKGTOIGAYFASLCSVDVDSNGSTDLVLGAPHYEEOTRGQOVSVCP 480
DB 437 QNTGMESNANVKGTOIGAYFASLCSVDVDSNGSTDLVLGAPHYEEOTRGQOVSVCP 496
QY 481 PRGQRRMOCDAVLVGEQCPWGRFGAALTIVLDVNDGDLTVVALGAPBEDNRGAVLYF 540
DB 497 PRGQRRMOCDAVLVGEQCPWGRFGAALTIVLDVNDGDLTVVALGAPBEDNRGAVLYF 556
QY 541 HGTSGSGISPSHSORIASKLSRRLQYFGQSLSGGODLTMDLVDLTVAQGVHLLRSQ 600
DB 557 HGTSGSGISPSHSORIASKLSRRLQYFGQSLSGGODLTMDLVDLTVAQGVHLLRSQ 616
QY 601 PVLRVKAIMEFNPREVARNVPECNDQVYKKEAGEVRVCLHYOKSTRDLREGQIQSVVT 660
DB 617 PVLRVKAIMEFNPREVARNVPECNDQVYKKEAGEVRVCLHYOKSTRDLREGQIQSVVT 676
QY 661 YDLALDSGRPHRAVFNENKSTRQTOVLGLTQNCETLKLQPNCTEDPVSPVLRNLF 720
DB 677 YDLALDSGRPHRAVFNENKSTRQTOVLGLTQNCETLKLQPNCTEDPVSPVLRNLF 736
QY 721 SLVGTPLSAFAGNLRPVLAEDAORLFTALFPFEKNCGNNDICODDLSTFSPMSDCLVVG 780
DB 737 SLVGTPLSAFAGNLRPVLAEDAORLFTALFPFEKNCGNNDICODDLSTFSPMSDCLVVG 796
QY 781 GPREFNVTYVNDGEDSYRTQVTEFFPLDLSYRKVSTYLRKSTYLRKSTYLRKSTYLRKSTY 840
DB 797 GPREFNVTYVNDGEDSYRTQVTEFFPLDLSYRKVSTYLRKSTYLRKSTYLRKSTYLRKSTY 856
QY 841 SGALKSTSCSINHPIPRESEVTEFNTPDVDSKASLGNLLKAVTSNNMPRTKTEF 900
DB 857 SGALKSTSCSINHPIPRESEVTEFNTPDVDSKASLGNLLKAVTSNNMPRTKTEF 916
QY 901 QLELPVYAVNMYVWVSHGSTKYLNFTASENTRVWQHOYVSNLQORSLPISLVEVLEV 960
DB 917 QLELPVYAVNMYVWVSHGSTKYLNFTASENTRVWQHOYVSNLQORSLPISLVEVLEV 976
QY 961 RLNQTVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKA PVNVCISIAVOCRIQCDIP 1020
DB 977 RLNQTVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKA PVNVCISIAVOCRIQCDIP 1036
QY 1021 PRGIOEFNATLKGNLSFPMYIKTSNNHLLIVSTAEILFNDSVFTLLPQGA FVRSQTEI 1080
DB 1037 PRGIOEFNATLKGNLSFPMYIKTSNNHLLIVSTAEILFNDSVFTLLPQGA FVRSQTEI 1096
QY 1081 KYEPFEVNPPLPIYVSSVGGLLLLALLITRALYKLGFFKQYKDMMSSEGPPGAEPO 1137
DB 1097 KYEPFEVNPPLPIYVSSVGGLLLLALLITRALYKLGFFKQYKDMMSSEGPPGAEPO 1153

```

RESULT 8  
 US-09-193-043-3  
 ; Sequence 3, Application us/09193043  
 ; Patent No. 6251395  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gallatin, Michael W.  
 ; APPLICANT: Van der Vieren, Monica  
 ; TITLE OF INVENTION: No. 6251395e1 Human 2  
 ; FILE REFERENCE: 27866/35004  
 ; CURRENT APPLICATION NUMBER: US/09/193,043  
 ; FILING DATE: 1998-11-16  
 ; EARLIER APPLICATION NUMBER: 08/173,497  
 ; EARLIER FILING DATE: 1993-12-23  
 ; EARLIER APPLICATION NUMBER: 08/286,889  
 ; EARLIER FILING DATE: 1994-08-05  
 ; EARLIER APPLICATION NUMBER: 08/362,652  
 ; EARLIER FILING DATE: 1994-12-21  
 ; EARLIER APPLICATION NUMBER: 08/943,363  
 ; EARLIER FILING DATE: 1997-10-03

NUMBER OF SEQ ID NOS: 114  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 3  
LENGTH: 1153  
TYPE: PRF  
ORGANISM: Homo sapiens  
US-09-193-043-3

Query Match 99.5%; Score 5852; DB 4; Length 1153;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

1 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANORGSUYCCDSTGSCPT 60  
17 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANORGSUYCCDSTGSCPT 76  
61 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 120  
77 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 136  
121 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKEWSTVMEOLKSKTLFSLMOYSEEF 180  
137 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKEWSTVMEOLKSKTLFSLMOYSEEF 196  
181 RHFTFKFQNNPNPRLIKPTQLGRTHTAGLRKVRBELFNITNGARKNAFKILVLI 240  
197 RHFTFKFQNNPNPRLIKPTQLGRTHTAGLRKVRBELFNITNGARKNAFKILVLI 256  
241 TDGEKFDPLGYEDVPELDREGVIRYVIGVDAFRSEKROELNTVASKPRDHVFOIN 300  
257 TDGEKFDPLGYEDVPELDREGVIRYVIGVDAFRSEKROELNTVASKPRDHVFOIN 316  
301 NFEALKTIONQLEKIFAIEGTOTGSSSFEHMSOGFSAATSNGLPLSTVGSYDMAG 360  
317 NFEALKTIONQLEKIFAIEGTOTGSSSFEHMSOGFSAATSNGLPLSTVGSYDMAG 376  
361 GVELYTSKEKSTFINTMTVDSMDNDAYLGAIAIILNRRVQSLVGAARYQHIGLVAMFR 420  
377 GVELYTSKEKSTFINTMTVDSMDNDAYLGAIAIILNRRVQSLVGAARYQHIGLVAMFR 436  
421 ONTGMESSNANVGTQIGAFGASLCSVDVDSNSTDLVILGAPHYEQRRGQVSCPL 480  
437 ONTGMESSNANVGTQIGAFGASLCSVDVDSNSTDLVILGAPHYEQRRGQVSCPL 496  
481 PRGQARAWQCDAYLYGEGQPMWGFAGALTVLGVDNGLKTLDAVIGAPGEEDNRGAYL 540  
497 PRGQARAWQCDAYLYGEGQPMWGFAGALTVLGVDNGLKTLDAVIGAPGEEDNRGAYL 556  
541 HGTSGSGISPSHSGRIAGSKLSPRLQYFGQSLGGQDLTMDGLVDLTVGAQGHVLLRSQ 600  
557 HGTSGSGISPSHSGRIAGSKLSPRLQYFGQSLGGQDLTMDGLVDLTVGAQGHVLLRSQ 616  
601 PVRVYKAIMFNPREVARNPEECNDQVYKKEGVEVYCHLVOKSTRDRLEBQIOGV 660  
617 PVRVYKAIMFNPREVARNPEECNDQVYKKEGVEVYCHLVOKSTRDRLEBQIOGV 676  
661 YDLALDSGRHSAVAFNETKSTRQTOVGLTQTCETLKLQLPNCIEDVPSIVLRLNF 720  
677 YDLALDSGRHSAVAFNETKSTRQTOVGLTQTCETLKLQLPNCIEDVPSIVLRLNF 736  
721 SLVGTPLSAFAGNLRPLAEDAQRLLFTALPPEKXCGNDNICODDLSTFSFMSIDL 780  
737 SLVGTPLSAFAGNLRPLAEDAQRLLFTALPPEKXCGNDNICODDLSTFSFMSIDL 796  
781 GREPEENTVTVRNDGESSYTOVTFPPDLSTRKYSTLONORSORWRALACSSASTEV 840  
797 GREPEENTVTVRNDGESSYTOVTFPPDLSTRKYSTLONORSORWRALACSSASTEV 856  
841 SGALKSTSCSINHPIFENSEEVTNITFDVDSKASLGNKLLKANTYSNNMPTNTEF 900  
857 SGALKSTSCSINHPIFENSEEVTNITFDVDSKASLGNKLLKANTYSNNMPTNTEF 916  
901 QLELPVKYAVVMVTVSHGVSTKYLNFTASENTSRVMQHOYQVSNLGRSLPLSLVFLV 960

917 QLELPVKYAVVMVTVSHGVSTKYLNFTASENTSRVMQHOYQVSNLGRSLPLSLVFLV 976  
961 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 1020  
977 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 1036  
1021 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKEWSTVMEOLKSKTLFSLMOYSEEF 1080  
1037 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKEWSTVMEOLKSKTLFSLMOYSEEF 1096  
1081 KHEPEFVNPPLIVSSVSGILLALITLALYKGFGRQYKDMMSBEGPFGAEQ 1137  
1097 KHEPEFVNPPLIVSSVSGILLALITLALYKGFGRQYKDMMSBEGPFGAEQ 1153

## RESULT 9

US-09-688-307A-3  
Sequence 3, Application US/09688307A  
Patent No. 6432404  
GENERAL INFORMATION:  
APPLICANT: Gallatin, Michael W.  
APPLICANT: Van der Vliet, Monica  
TITLE OF INVENTION: No. 6432404e1 Human Beta-2  
FILE REFERENCE: 27866/36646  
CURRENT FILING DATE: 2000-10-13  
PRIOR FILING DATE: 1998-11-16  
PRIOR APPLICATION NUMBER: 08/605,672  
PRIOR FILING DATE: 1996-02-22  
PRIOR APPLICATION NUMBER: 08/173,497  
PRIOR FILING DATE: 1993-12-23  
PRIOR APPLICATION NUMBER: 08/286,889  
PRIOR FILING DATE: 1994-08-05  
PRIOR APPLICATION NUMBER: 08/362,652  
PRIOR FILING DATE: 1994-12-21  
PRIOR APPLICATION NUMBER: 08/943,363  
PRIOR FILING DATE: 1997-10-03  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 3  
LENGTH: 1153  
TYPE: PRF  
ORGANISM: Homo sapiens  
US-09-688-307A-3

Query Match 99.5%; Score 5852; DB 4; Length 1153;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

1 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANORGSUYCCDSTGSCPT 60  
17 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANORGSUYCCDSTGSCPT 76  
61 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 120  
77 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 136  
121 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKEWSTVMEOLKSKTLFSLMOYSEEF 180  
137 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKEWSTVMEOLKSKTLFSLMOYSEEF 196  
181 RHFTFKFQNNPNPRLIKPTQLGRTHTAGLRKVRBELFNITNGARKNAFKILVLI 240  
197 RHFTFKFQNNPNPRLIKPTQLGRTHTAGLRKVRBELFNITNGARKNAFKILVLI 256  
241 TDGEKFDPLGYEDVPELDREGVIRYVIGVDAFRSEKROELNTVASKPRDHVFOIN 300  
257 TDGEKFDPLGYEDVPELDREGVIRYVIGVDAFRSEKROELNTVASKPRDHVFOIN 316  
301 NFEALKTIONQLEKIFAIEGTOTGSSSFEHMSOGFSAATSNGLPLSTVGSYDMAG 360

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Db 317 NFEALKTIONOLREKIPALEGTOTSSSFEHEMOEGFSAITNSGPLISTVGSYDMAG 376
Qy 361 GVFLYTSKESKSTFINMTNRVDSDMNDAYLGYAAAIILRNVSQSLVLCAPRYQHIGLVAMR 420
Db 377 GVFLYTSKESKSTFINMTNRVDSDMNDAYLGYAAAIILRNVSQSLVLCAPRYQHIGLVAMR 436
Qy 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEEOTRGQVSVCP 480
Db 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEEOTRGQVSVCP 496
Qy 481 PRGORARWOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTDVAIGAPBEDNRGAVVYF 540
Db 497 PRGORARWOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTDVAIGAPBEDNRGAVVYF 556
Qy 541 HGTSGSGISPSHSQRIAGSKLSRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSQRIAGSKLSRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 616
Qy 601 PVLRVKAIMEFNEPREVARNVFECNDQVVGKEAGEVRVCLHVQKSTRDLREGQISVVT 660
Db 617 PVLRVKAIMEFNEPREVARNVFECNDQVVGKEAGEVRVCLHVQKSTRDLREGQISVVT 676
Qy 661 YDLALDSGRPHSAVAVNETKSTRROTQVGLTQTCETLKLQIPNCIEDPVSPIVLRNF 720
Db 677 YDLALDSGRPHSAVAVNETKSTRROTQVGLTQTCETLKLQIPNCIEDPVSPIVLRNF 736
Qy 721 SLVGTPLSAFGNLRPLAEDAOBLFTALFPFEKNCNDNICODDLSITFSFMSLDCLVNG 780
Db 737 SLVGTPLSAFGNLRPLAEDAOBLFTALFPFEKNCNDNICODDLSITFSFMSLDCLVNG 796
Qy 781 GPHEFNVTYVRNDSGRDYSYRQVTFEPPLDLSYRKVSTLONQORSQSWRLACASASTEV 840
Db 797 GPHEFNVTYVRNDSGRDYSYRQVTFEPPLDLSYRKVSTLONQORSQSWRLACASASTEV 856
Qy 841 SGMLKSTSGSINRPIPEPSEVFNITTPVDASQASLGNKLLKANTSENMMRTKTE 900
Db 857 SGMLKSTSGSINRPIPEPSEVFNITTPVDASQASLGNKLLKANTSENMMRTKTE 916
Qy 901 QLELPKXAVAVMYVTSHTGVTSTKTLNFTASENTRVMOHQVSNLQORSPLSLVLRV 960
Db 917 QLELPKXAVAVMYVTSHTGVTSTKTLNFTASENTRVMOHQVSNLQORSPLSLVLRV 976
Qy 961 RLNQTVIMRPOVTFSENLSTCHTKERLPBSHDFLAELRKAPVNCIAVCCRIQCDIP 1020
Db 977 RLNQTVIMRPOVTFSENLSTCHTKERLPBSHDFLAELRKAPVNCIAVCCRIQCDIP 1036
Qy 1021 FPGIOEFENATLKGNLSFDMYITKSHNHLIVSTAEILFNDVSFTLLPGQGAIVRSCTER 1080
Db 1037 FPGIOEFENATLKGNLSFDMYITKSHNHLIVSTAEILFNDVSFTLLPGQGAIVRSCTER 1096
Qy 1081 KVEPFEVNPPLIVGSSVGGLLLLALITAAKYKLGFFKQYKDMMSGGPPGAEPQ 1137
Db 1097 KVEPFEVNPPLIVGSSVGGLLLLALITAAKYKLGFFKQYKDMMSGGPPGAEPQ 1153

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RESULT 10  
US-08-476-062A-43  
Sequence 43. Application us/08476062A

Patent No. 5877275  
GENERAL INFORMATION:  
APPLICANT: Artaout, M. Amin  
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY  
NUMBER OF SEQUENCES: 53  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

```

COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 07/212,573
FILING DATE: 28-JUN-1988
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00786/068003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: Internal
US-08-476-062A-43

Query Match          98.9%  Score 5821.5;  DB 2;  Length 1152;
Beet Local Similarity 98.9%  Pred. No. 0;
Matches 1125;  Conservative 7;  Mismatches 4;  Indels 1;  Gaps 1;

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556 HGTSGSGISPSHQRIAGSKLSPLQYFGOSLSGQDGLTMDGLVDTLVAQGHVLLRSQ 615
601 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLREGQIOSVVT 660
616 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLREGQIOSVVT 675
661 YDLALDSGRPHSAVAVNETKSTRROTQVGLTQTCETLKLQUPNCIEDPVPVILRLNF 720
676 YDLALDSGRPHSAVAVNETKSTRROTQVGLTQTCETLKLQUPNCIEDPVPVILRLNF 735
721 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPPEKNCNDNI CODDLSTTFMSLDCLVVG 780
736 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPPEKNCNDNI CODDLSTTFMSLDCLVVG 795
781 GPREFNVTYVRNDGEDSYRTQVTFEPPLDLSYRKVSTLONORSQSRMLACESASTEV 840
796 GPREFNVTYVRNDGEDSYRTQVTFEPPLDLSYRKVSTLONORSQSRMLACESASTEV 855
841 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGNKLLKANVTSENNMPTNKTEF 900
856 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGNKLLKANVTSENNMPTNKTEF 915
901 QLELPVKYAVMYVTSHGVSTKTLNFTASENTSRVMOHOYQVSNLQORSIPISLVFLVPV 960
916 QLELPVKYAVMYVTSHGVSTKTLNFTASENTSRVMOHOYQVSNLQORSIPISLVFLVPV 975
961 RLQNTQVMDRPOYTFSENLSSTCHTERLPSSHDFLAELKAPVNSIAVOCRIQDIP 1020
976 RLQNTQVMDRPOYTFSENLSSTCHTERLPSSHDFLAELKAPVNSIAVOCRIQDIP 1035
1021 FPGIOEFNATLKNLSFDWYIKTSHNLLIVSTAEILLFNDSVETLLPGQAFVRSQET 1080
1036 FPGIOEFNATLKNLSFDWYIKTSHNLLIVSTAEILLFNDSVETLLPGQAFVRSQET 1095
1081 KVRPEFVNPPLPIVGSVGGLLLAILTALYKLGFFKQYKDMSEGGPPGAEPQ 1137
1096 KVRPEFVNPPLPIVGSVGGLLLAILTALYKLGFFKQYKDMSEGGPPGAEPQ 1152

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RESULT 11  
PCT-US96-01314-43  
; Sequence 43, Application PC/TUS9601314  
; GENERAL INFORMATION:  
; APPLICANT: M. Amin Arnaout  
; TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN  
; TITLE OF INVENTION: ANTAGONISTS  
; NUMBER OF SEQUENCES: 78  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
; COMPUTER: IBM PS/2 Model 50Z or 55SX  
; OPERATING SYSTEM: MS-DOS (Version 5.0)  
; SOFTWARE: WordPerfect (Version 5.1)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/01314  
; FILING DATE: 30-JAN-96  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/380,167  
; FILING DATE: 30-JAN-95  
; ATTORNEY/AGENT INFORMATION:  
; NAME: John W. Freeman  
; REGISTRATION NUMBER: 29,066  
; REFERENCE/DOCKET NUMBER: 00786/267001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 542-5070  
; TELEFAX: (617) 542-8906

```

; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
PCT-US96-01314-43

Query Match      98.9%; Score 5821.5; DB 5; Length 1152;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1125; Conservative 7; Mismatches 4; Indels 1; Gaps 1;

QY 1 FNLDENAMTFOENARFGOSVVOLOGSRVYVGAPEIYAANORGSLYOCDSYSGCEPI 60
DB 17 FNLDENAMTFOENARFGOSVVOLOGSRVYVGAPEIYAANORGSLYOCDSYSGCEPI 76
QY 61 RLQVPYEAVMMSLGLSLAATTSPPOLLACGPYVHQCSENTYVKGCLFPGSLRQOPK 120
DB 77 RLQVPYEAVMMSLGLSLAATTSPPOLLACGPYVHQCSENTYVKGCLFPGSLRQOPK 136
QY 121 FPEALRGCEQEDSDIAFLIDSGSII PHDFRMYKEVSTVMEOLKSKTILFSIMOYSEEF 180
DB 137 FPEALRGCEQEDSDIAFLIDSGSII PHDFRMYKEVSTVMEOLKSKTILFSIMOYSEEF 196
QY 181 RIHFTKEFQNNPNRSLIKPITOLLGRTHATGLRKVRELFINI TNGARKNAFKILFLL 240
DB 197 RIHFTKEFQNNPNRSLIKPITOLLGRTHATGLRKVRELFINI TNGARKNAFKILVVI 256
QY 241 TQGEKGDPLGHDVY PELDREGVIRYVGVGDA PRSEKSRQELNVAKPPRDHFOIN 300
DB 257 TQGEKGDPLGHDVY PELDREGVIRYVGVGDA PRSEKSRQELNVAKPPRDHFOIN 316
QY 301 NFPAKTIQNOUREKIFALEGTQTSSEFHEMSQEGFSAATSNGLPLSTVGSYDMAG 360
DB 317 NFPAKTIQNOUREKIFALEGTQTSSEFHEMSQEGFSAATSNGLPLSTVGSYDMAG 376
QY 361 GVFLYTSKESKSTFINNTRVDSMDNDAYLGYAAIILRNVOGLVLCAPRYOHIGLVAMFR 420
DB 377 GVFLYTSKESKSTFINNTRVDSMDNDAYLGYAAIILRNVOGLVLCAPRYOHIGLVAMFR 436
QY 421 QNTGMESSNANKGTQIGAFGASLCSVDVDSNGSTDLVLIGAPHYEDTGRGQVSVCL 480
DB 437 QNTGMESSNANKGTQIGAFGASLCSVDVDSNGSTDLVLIGAPHYEDTGRGQVSVCL 496
QY 481 PRGQARWOCDAVLXGEOQOPWGRFGAALTVDVGVGDKLTVAIGAPEEDNRGAVYLF 540
DB 497 PRGQARWOCDAVLXGEOQOPWGRFGAALTVDVGVGDKLTVAIGAPEEDNRGAVYLF 555
QY 541 HGTSGSGISPSHQRIAGSKLSPLQYFGOSLSGQDGLTMDGLVDTLVAQGHVLLRSQ 600
DB 556 HGTSGSGISPSHQRIAGSKLSPLQYFGOSLSGQDGLTMDGLVDTLVAQGHVLLRSQ 615
QY 601 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLREGQIOSVVT 660
DB 616 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDRLREGQIOSVVT 675
QY 661 YDLALDSGRPHSAVAVNETKSTRROTQVGLTQTCETLKLQUPNCIEDPVPVILRLNF 720
DB 676 YDLALDSGRPHSAVAVNETKSTRROTQVGLTQTCETLKLQUPNCIEDPVPVILRLNF 735
QY 721 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPPEKNCNDNI CODDLSTTFMSLDCLVVG 780
DB 736 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPPEKNCNDNI CODDLSTTFMSLDCLVVG 795
QY 781 GPREFNVTYVRNDGEDSYRTQVTFEPPLDLSYRKVSTLONORSQSRMLACESASTEV 840
DB 796 GPREFNVTYVRNDGEDSYRTQVTFEPPLDLSYRKVSTLONORSQSRMLACESASTEV 855
QY 841 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGNKLLKANVTSENNMPTNKTEF 900
DB 856 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGNKLLKANVTSENNMPTNKTEF 915

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QY 901 QLELPVKAVVWVTSHTGVTXYLNFTASENTSRVMOHOYVSNLQGRSLPISLVLEVPV 960  
 Db 916 QLELPVKAVVWVTSHTGVTXYLNFTASENTSRVMOHOYVSNLQGRSLPISLVLEVPV 975  
 QY 961 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAEIRKAPVNCSTIACQRIQCDDIP 1020  
 Db 976 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAEIRKAPVNCSTIACQRIQCDDIP 1035  
 QY 1021 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDVFTLLPGQAFVRSQTEI 1080  
 Db 1036 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDVFTLLPGQAFVRSQTEI 1095  
 QY 1081 KYEPFVNPPLPIVSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1137  
 Db 1096 KYEPFVNPPLPIVSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1152  
 RESULT 12  
 Patent No. 5424399  
 APPLICANT: ARNAOUT, M. AMIN  
 TITLE OF INVENTION: HUMAN CR3a/b HETERODIMERS  
 NUMBER OF SEQUENCES: 12  
 CURRENT APPLICATION DATA:  
 FILING DATE: 16-JUN-1993  
 PRIOR APPLICATION DATA:  
 FILING DATE: 18-JUN-1990  
 APPLICATION NUMBER: 539,842  
 FILING DATE: 28-JUN-1988  
 APPLICATION NUMBER: 212,573  
 SEQ ID NO: 2  
 LENGTH: 1152  
 5424399-2  
 Query Match 98.9%; Score 5821.5; DB 6; Length 1152;  
 Best Local Similarity 98.9%; Pred. No. 0;  
 Matches 1125; Conservative 7; Mismatches 4; Indels 1; Gaps 1;  
 QY 1 FNDTEAMTFQENARFGSGSVVQLOGSRVVGAPQEIIVANQSGSLYQCDYSTGSCSEPI 60  
 Db 17 FNDTEAMTFQENARFGSGSVVQLOGSRVVGAPQEIIVANQSGSLYQCDYSTGSCSEPI 76  
 QY 61 RLQVPVAVNMSLGLSLAATTSPPQLACGPTVHTQCESTVYKGLFGLFSGNLROQPOK 120  
 Db 77 RLQVPVAVNMSLGLSLAATTSPPQLACGPTVHTQCESTVYKGLFGLFSGNLROQPOK 136  
 121 FPEALRGCPQEDSDIAFLIDSGSIIIPDFRMRKEWSTVMEQIKSKTLPFSLMYSSEF 180  
 137 FPEALRGCPQEDSDIAFLIDSGSIIIPDFRMRKEWSTVMEQIKSKTLPFSLMYSSEF 196  
 QY 181 RIHFTFEFQNNRPRSLIRPITOLLGRTHATGLRKVVELFNTTGARKNAFKILFLL 240  
 Db 197 RIHFTFEFQNNRPRSLIRPITOLLGRTHATGLRKVVELFNTTGARKNAFKILFLL 256  
 QY 241 TDGKFPDPLGYEBVYIPDLREGVIRYVIGVDAFRSEKSRQELANTVASKPRPDHVFQIN 300  
 Db 257 TDGKFPDPLGYEBVYIPDLREGVIRYVIGVDAFRSEKSRQELANTVASKPRPDHVFQIN 316  
 QY 301 NFEALKTIONQRLREKIFALBGTQOTGSSSSFEHENSQEGFSAITNSGPLLSTVGSYDMAG 360  
 Db 317 NFEALKTIONQRLREKIFALBGTQOTGSSSSFEHENSQEGFSAITNSGPLLSTVGSYDMAG 376  
 QY 361 GVLPLYSKEKSTFINMRVSDMNDAYLGYAAIILNRVQSLVLAGPRYOHIGLVAMFR 420  
 Db 377 GVLPLYSKEKSTFINMRVSDMNDAYLGYAAIILNRVQSLVLAGPRYOHIGLVAMFR 436  
 QY 421 QNTGMSNNANVKGTQIGAYGASLCSVDVDSNSTDLVLIGAPHYEQRIGQGVSCPL 480  
 Db 437 QNTGMSNNANVKGTQIGAYGASLCSVDVDSNSTDLVLIGAPHYEQRIGQGVSCPL 496  
 QY 481 PRGQARWQCDVLYGEOGQWGRFGAALTVLGVNGDKLTDVAIGAGEEDNRGAYLFF 540

Db 497 PRG-QARWQCDVLYGEOGQWGRFGAALTVLGVNGDKLTDVAIGAGEEDNRGAYLFF 555  
 QY 541 HGTSSGSGISPSHSHQRIAGSKLSPRLQYFGQSLSGQDITMDGLVDLTVGAQGHVLLLSQ 600  
 Db 556 HGTSSGSGISPSHSHQRIAGSKLSPRLQYFGQSLSGQDITMDGLVDLTVGAQGHVLLLSQ 615  
 QY 601 PYLRKAIWEPNPREAVNVEFCNDQVYKKEAGEVRYCLHVQKSTRDLREGQIOSVVT 660  
 Db 616 PYLRKAIWEPNPREAVNVEFCNDQVYKKEAGEVRYCLHVQKSTRDLREGQIOSVVT 675  
 QY 661 YDLALDSGRPHRAVFNENKSTRQTOVLGLTORCETLKLQLPNCIEDPVSPYLRLENF 720  
 Db 676 YDLALDSGRPHRAVFNENKSTRQTOVLGLTORCETLKLQLPNCIEDPVSPYLRLENF 735  
 QY 721 SLVGTPLSAFGNLRPLAEDAORLFTALFPPEKNGNDNICODDISITFSFMSLCLVYG 780  
 Db 736 SLVGTPLSAFGNLRPLAEDAORLFTALFPPEKNGNDNICODDISITFSFMSLCLVYG 795  
 QY 781 GPREFNVTYVANDGEDSYRTQVTEFFPLDLSYRKVSTLQNGRSQSWRLACESASSTEV 840  
 Db 796 GPREFNVTYVANDGEDSYRTQVTEFFPLDLSYRKVSTLQNGRSQSWRLACESASSTEV 855  
 QY 841 SGALKSTSGSINHPIFPENSEVTNITPDVDSKASLGNKLLKANVTSNNMPRTNKTFF 900  
 Db 856 SGALKSTSGSINHPIFPENSEVTNITPDVDSKASLGNKLLKANVTSNNMPRTNKTFF 915  
 QY 901 QLELPVKAVVWVTSHTGVTXYLNFTASENTSRVMOHOYVSNLQGRSLPISLVLEVPV 960  
 Db 916 QLELPVKAVVWVTSHTGVTXYLNFTASENTSRVMOHOYVSNLQGRSLPISLVLEVPV 975  
 QY 961 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAEIRKAPVNCSTIACQRIQCDDIP 1020  
 Db 976 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAEIRKAPVNCSTIACQRIQCDDIP 1035  
 QY 1021 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDVFTLLPGQAFVRSQTEI 1080  
 Db 1036 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDVFTLLPGQAFVRSQTEI 1095  
 QY 1081 KYEPFVNPPLPIVSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1137  
 Db 1096 KYEPFVNPPLPIVSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1152  
 RESULT 13  
 US-08-476-062A-44  
 Sequence 44, Application US/08476062A  
 Patent No. 5877275  
 GENERAL INFORMATION:  
 APPLICANT: Arnaout, M. Amin  
 TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY  
 TITLE OF INVENTION: RESPONSES WITH BETAL2 INTEGRINS  
 NUMBER OF SEQUENCES: 53  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Fish & Richardson P. C.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: US  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: Windows95  
 SOFTWARE: Fast-Seq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 FILING DATE: 07-JUN-1995  
 APPLICATION NUMBER: US/08/476,062A  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/216,081  
 FILING DATE: 21-MAR-1994  
 APPLICATION NUMBER: 07/637,830  
 FILING DATE: 04-JUN-1991  
 APPLICATION NUMBER: 07/539,842

FILING DATE: 18-JUN-1990  
 APPLICATION NUMBER: 07/212,573  
 FILING DATE: 28-JUN-1988  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Freeman, John W.  
 REGISTRATION NUMBER: 29,066  
 REFERENCE/DOCKET NUMBER: 00786/068003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1163 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-476-062A-44

Query Match 58.8%; Score 3459; DB 2; Length 1163;  
 Best Local Similarity 60.9%; Pred. No. 9.5e-290;  
 Matches 687; Conservative 142; Mismatches 294; Indels 6; Gaps 4;

QY 1 FNDTEAMTQENARFGSGSVVQLOGSRVYVGAPOEIVANQSGSLYQCDYSTGSGEPT 60  
 DB 20 FNDTEAMTQENARFGSGSVVQLOGSRVYVGAPOEIVANQSGSLYQCDYSTGSGEPT 79  
 QY 61 RLQVPEAVVNSLGLSLAATSPQLLACGPTVYHQCSENYVYGLCFPGSNLRQOPK 120  
 DB 80 GLQVPEAVVNSLGLSLAATSPQLLACGPTVYHQCSENYVYGLCFPGSNLRQOPK 137  
 QY 121 PEARLRCQPOEDSDIAFLIDGSGSIIIPDFRMRKMWSTVMEQIKSKTLPMLQYSEEP 180  
 DB 138 LPVSRQCPQEOEDIVFLIDGSGSISRNPAITMNFRAVLSQFQBSTQFSLQFANKF 197  
 QY 181 RIHFTKEPQNNRPRRLIRPIQOLLGRTATGCRVYELPITNGAKRNKILFL 240  
 DB 198 QTHFTFEFRTSNPLSLVHQLQFTYATAIQNVHRLPFLASYGARDKILIV 257  
 QY 241 TDGKFGDPGVEDVIELDREGVIRYVIGVDAFRSEKSGQELNTVASKRPDRHFOIN 300  
 DB 258 TDGKFGDSDLDYKDVIPMAAGIIRAIQVGLAFQRNRMKELNDLASKPSQGHIRKVE 317  
 QY 301 NFEALKTIONQREKIFAIQGTQSGSSSFHEHNSQGFSAITNSGPLLSTVGSYDMAG 360  
 DB 318 DFLALQIQOLKEKIFAIQGTETSSSFELEMAQGFSAVFTPDGVLGAVGSFTWSG 377  
 QY 361 GVLFTYKESKSTFNNTRVSDMDALGLYAAAILNNRQSLVLGAPRYQHGLVAMFR 420  
 DB 378 GAFLYPNNMSPFTFNNMQEVDMDSYLGYSTELAMKGVQSLVLGAPRYQHGLVAMFR 437  
 QY 421 QNTGMMESNNVKGTOIGAFYGASLGVVDNSGNTLVLIGAPHYEOTRGGOVSVCPL 480  
 DB 438 QVSRQRMKAEVCTQIGSIFGASLGVVDNTDSTLVLIGAPHYEOTRGGOVSVCPL 497  
 QY 481 PRGQARAVOCDAVLVYGEQGPWGRFGAALTVLGVDNGLTDVAIGAPGEEDNRGAVYLF 540  
 DB 498 PRGWR-RWMCDAVLVYGEQGPWGRFGAALTVLGVDNGLTDVAIGAPGEEDNRGAVYLF 556  
 QY 541 HGTSGSSISPSHGRKINGSLSPLOQFGOSLSGGDLTMDGLVDLTLYGAGHYLLRSQ 600  
 DB 557 HGVLPSSISPSHGRKINGSLSPLOQFGOSLSGGDLTMDGLVDLTLYGAGHYLLRSQ 616  
 QY 601 PVLKVAIMEFNPFEVARNVECDQVVKKEAGEVAVCAHVOKSTRDRREGQIOSVVT 660  
 DB 617 PVLKVAIMEFNPFEVARNVECDQVVKKEAGEVAVCAHVOKSTRDRREGQIOSVVT 676  
 QY 661 YDLALDSGRPHSAVFNETKNSRRQTVGLTQTCETLKLQPNCTEDVSPVILRLNF 720  
 DB 677 YDLALDSGRPHSAVFNETKNSRRQTVGLTQTCETLKLQPNCTEDVSPVILRLNF 736  
 QY 721 SLVGTPLSAGNLRPVLAEDQRLFTALFPPEKNGCNDNICODDLSTFSFMSLDCILVIG 780

DB 737 TLVCKPLAFRNIRPMALAAQRYFTASLPFEKNGCADHI CODNLGISPSFGKSLYNG 796  
 QY 781 GPREFVTVTVRNGDSDSYRTQVTFEFPDLDSYKYSTLQNGRSCRWLACESASTEV 840  
 DB 797 SNEELNAEVMVNDGSDSYRTQVTFEFPDLDSYKYSTLQNGRSCRWLACESASTEV 854  
 QY 841 SGALKSTGCSINHPFENSEVTENITFPVDSKASLGKLLKANTYSENMPKINTEF 900  
 DB 855 SCGTWSTSCRINHLIFRGAQITFLTFFVSPKAVYGDRLLLTANVSNNTPRTSKTTF 914  
 QY 901 QLELPKVAIVVNVVTSHTGVTXYLNFTAS-ENTSRVMOHOYOVNSLGOBSPISVLEVP 959  
 DB 915 QLELPKVAIVVNVVTSHTGVTXYLNFTAS-ENTSRVMOHOYOVNSLGOBSPISVLEVP 974  
 QY 960 VRLNQTVIMDRPQVTESENLSSTCHTERLPSSHDFLAELRAKAPVNCISAVCORICDI 1019  
 DB 975 VELNQAAMVDVSHRQNPULRCSSEKIAAPASDPLAHQKNPVLDCIAGLRRCOV 1034  
 QY 1020 PFFGIOEFNNATLKNLSFDWYIKTSHNHLIVSTAEILFNDSVFTLLPQOGAFVRSQTE 1079  
 DB 1035 PSFVQEBLDFTLKGNLSFGWROQLQKKVSVSVVAEITFDTSVYSLPQGEAFMRAQTT 1094  
 QY 1080 TKVEPEVNPPLIYSSVGLLLALITLALYKGFPRQYKDMSE 1128  
 DB 1095 TLEKRYKHNPPPLIYSSVGLLLALITLALYKGFPRQYKDMSE 1143

## RESULT 14

PCT-US96-01314-44

Sequence 44, Application PC/TUS9601314  
 GENERAL INFORMATION:  
 APPLICANT: M. Amin Arnaout  
 TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN  
 TITLE OF INVENTION: ANTAGONISTS  
 NUMBER OF SEQUENCES: 78  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Fish & Richardson P.C.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: U.S.A.  
 ZIP: 02110-2804  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
 COMPUTER: IBM PS/2 Model 502 or 55SX  
 OPERATING SYSTEM: MS-DOS (Version 5.0)  
 SOFTWARE: Wordperfect (Version 5.1)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/01314  
 FILING DATE: 30-JAN-96  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/380,167  
 FILING DATE: 30-JAN-95  
 ATTORNEY/AGENT INFORMATION:  
 NAME: John W. Freeman  
 REGISTRATION NUMBER: 29,066  
 REFERENCE/DOCKET NUMBER: 00786/267001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 542-5070  
 TELEFAX: (617) 542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1163  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 PCT-US96-01314-44

Query Match 58.8%; Score 3459; DB 5; Length 1163;  
 Best Local Similarity 60.9%; Pred. No. 9.5e-290;  
 Matches 687; Conservative 142; Mismatches 294; Indels 6; Gaps 4;

|    |      |   |      |
|----|------|---|------|
| Qy | 1    | FNTEENAMTPEENAREFGOSVVOLOGSRVYVGAPOEYIAANORSLVOCYVSGSCPEI     | 60   |
| Db | 20   | FNLDTEELTRAFVDSAGFGDSVVQYANSWVVGAPDKITPAANQTAGLQYCGSTGACEPI   | 79   |
| Qy | 61   | RLQVPEAVVNNLSLGLSLAATTPSPOLLACGPYVHQCSENTPVKGICFLFGSNLRQOQK   | 120  |
| Db | 80   | GLQVPEAVVNNLSLGLSLASTTSPQLLACGPYVHHCGRMMVLTGLCFLGPT--QLTOR    | 137  |
| Qy | 121  | PEALRGCPQEDSDIAFLIDGSGSIIIPHDERMKENWSTVMEQLKSKTTFSLMQYSEF     | 180  |
| Db | 138  | LPVSRQECPRQEQIVFLIDGSGSISGRNFATMMNFVRAVISOQFORSTQFSLQFMSKPF   | 197  |
| Qy | 181  | RHHTPFKEFQNNPPRSLIKRPIYOLGRTHTATGLKAVYRELPNITNGARKKAFILFL     | 240  |
| Db | 198  | QHTTFEEFRRTSNPLBLASVHLOQGFYTATPAIONVHRLEPHASYGARRDARTILVI     | 257  |
| Qy | 241  | TDGEKFGPGLGEVNIPELBREGYIRVIVGAPFSEKSRQBELMTVASKPRDHFQIN       | 300  |
| Db | 258  | TDGKKGDSLDYKQVIFPMADAAGIKRAIVGGLAFQNRKSMKELNDJASKSQEHIIFYE    | 317  |
| Db | 301  | NFEALKTIONQAREKIFAIBGTQOTGSSSPFHEMSSQEGFSAIITSNGLPLSTVGSYDMAG | 360  |
| Db | 318  | DFDMLQIQNLQKKEKIFAIBGTETRTSSSPELMAQEGSAVTPDGPVLGAVGSFTWSG     | 377  |
| Qy | 361  | GVFLYTSKSEKSTFINMRVDSDMNDAYLGTAAAIILRNQVSLVLCAPRYOHTGLVAMFR   | 420  |
| Db | 378  | GAFLPPEMNSPTFINMSQENVDKMSLYLGSTELALMKQVSLVLCAPRYOHTGAVIFET    | 437  |
| Qy | 421  | ONTGWESNANVKGTOIGAYGAGLGVDDVDSNGSTDLVLIGAPHYEEOTRGQVSVCL      | 480  |
| Db | 438  | QVSRQMRKKAENVTOIGSTIFYGASLGVDDVDTGSDTDLVIGAPHYEEOTRGQVSVCL    | 497  |
| Qy | 481  | PRGORARQOCDAVLVYGEQCGPWRFGAALTVLGDVNGDKLTVLALGAPBEDNRGAVYLF   | 540  |
| Db | 498  | PRGRM-RMWCDAVLYVYEGHGMWRFGAALTVLGDVNGDKLTVLVIGAPBEENRGAVYLF   | 556  |
| Qy | 541  | HGTSGSGISPSHSQRIAGSKSLPLOYFGOSLGGODLTMDGLVDLTVAQCHVLLBSQ      | 600  |
| Db | 557  | HGVLCRPSISPSHSQRIAGSOLSKRLQYFGALSGGODLTDDGLVLDLAVARQCVLLRTR   | 616  |
| Qy | 601  | PVLARKAIMEENPREVARNVEGNDQVVKKKAEBYVCLCHQKSTRDLRBSGOISVYT      | 660  |
| Db | 617  | PVLWVGSQMTIPAEIPRSAFECREQVASEOTLVQSNICLYIDKSKNLLGSRDLQSVT     | 676  |
| Qy | 661  | YDLALDSRPHSRVAVFNETKNSTRQTOVLGTOTCTELKLOLNCIEDPVSPVILRLNF     | 720  |
| Db | 677  | LDLALDPERLSPRATFOGTNRKLSLRVAVGLKAGCNFLLPSCVEDSVPTILRLNF       | 736  |
| Qy | 721  | SIVGTPSASFGLNRPVLAEQAURLFTLALPREKXGNDNICODDLSITTSFMSLCLVYG    | 780  |
| Db | 737  | TLVGRPLLAFNRLPMLAALQRYFTASLTFPEKKGCAHDICQDNLISFSFGLSILVYG     | 796  |
| Qy | 781  | GREENVVTVYRNGEDSVYRTOVFFPRPLDSYKXVSTTIONQSSQSMWLADEBSASTEV    | 840  |
| Db | 797  | SNLEINAEVMMWNOEDSDYGTITTFSPHAGSLYRYVAEGQKQOLSLHHTCHSAPVG--    | 854  |
| Qy | 841  | SGALSTKSTCSINHPIPFENSEVEFNITFEDVDSKASLGNKLLKANTYSENNPRTKTEF   | 900  |
| Db | 855  | BGGTMSSTCRINHILFRGGAOITFLAIFDPSPKAVLGDRLLLANVSSENNPRISKTTF    | 914  |
| Qy | 901  | QLELPEKVAIVTVVTSHGVSSTKYLNFTAS-ENTSRVMOHOYOVSNIGORSPLSLVFLVP  | 959  |
| Db | 915  | QLELPEKVAIVTVVSSHQFRTKYNLNFSESEKESHVAMHRYQVNNNGQDRDLPSVINFWP  | 974  |
| Qy | 960  | VNLQNTVIMDRQOVYFSSBLSSTOHTKERLPSHSDFLAELARKAPVNCISAVNQRIQDI   | 1011 |
| Db | 975  | VELNDEAVMMWDEVSHPNPBLRCSSEKILAPADPDLAHIQKQVLDLDCSTAGCLRRCDV   | 1033 |
| Qy | 1020 | PEFGIOEBFNATLKNLSLFFDWYIKTSHHMLIVYSTAEILFNDSVFTLLPQCAFVYSQTE  | 1075 |
| Db | 1035 | PEFSVQEBELDFLTKNLSFCGWVROQLQKKVSVSAVAILTDTISVQSLPQCAFMAQOTT   | 1099 |
| Qy | 1080 | TYVEPEVNPPLPLIVGSSVGGLLLALITALYKLGCFPRQYKDMWSE                | 1128 |

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DB 1095 TLEKTKYHNFPPLIVGSSIGLLLLALITAVLYKVGFFKQYKEMME 1143.

RESULT 15
US-08-173-497-4
Sequence 4, Application US/08173497
Patent No. 5437958
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van Der Vieren, Monica
TITLE OF INVENTION: No. 5437958e1 Human 2 Integrin Alpha
TITLE OF INVENTION: Subunit
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 S. Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/173,497
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5437958and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 27866/31363
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1163 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-173-497-4

Query Match 58.4%; Score 3436; DB 1; Length 1163;
Best Local Similarity 60.6%; Pred. No. 9.3e-286;
Matches 684; Conservative 148; Mismatches 291; Indels 6; Gaps

QY 1 FNLDENAMTPENARGFGOSVVOQSGRVVVGAEQEIIVAAQNSGLYOCDSYSGCEPI 60
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
DB 20 FNLDDELTAFKVDAGRGDSVVOYANSMVVGAKQKIITANQIGLYOCGSGTACEPI 79
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
QY 61 RLQVPEAVNMSLGLSLAATTPSPOLLACGPTVHOTCSENYVKGICLFGSNNLROQPOK 120
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
DB 80 GLQVPEAVNMSLGLSLASTTSPQLACGPTVHHECGNNMTLGTCLFGPT--QLTOR 137
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
QY 121 FEPALRGCGQESDIDAFLLDGSGLIIPHDPRMKEMVSYVMQOLKSKTLFSLMOYSSEF 180
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
DB 138 LPSRQECRCRODIDVFLDGSGLISSRNFATMMPFVRVVISQFORPSTQFSLMOPSNKF 197
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
QY 181 RLHFTFKKEFQNNPNRSLIKPITQLLGRTHATGLKRVRELFNITNGARKNAFKILPFL 240
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
DB 198 QHFTTEFEERRKSNPLSLASVHQLOGFTYTAITAIQNVHRLPHMSYGARRAKILYIV 257
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
QY 241 TDGEKFGDPLGEDVILPELDREGVIRYVIGVDARFSEKSRQELNTVASKPRPDHVFOIN 300
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
DB 258 TDGKEKGDSDLYKDVIPMDADAGIIRYAIQVGLAFQNRNSWKELDIAKSPQEHIFKVE 317
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |
QY 301 NPEALKTIQNLREKIFALEGTOGSSSFHEHMQEFSAAITNSGPIILSTVGSYDAG 360
| | | | | : : : | | | | | : : : | | | | | : : : | | | | |

```

Db 318 DFDALDIONQLEKIPAEIGTETISSSFELEMAQEGSAVFTPDGPIGAVGSFTWGS 377  
Qy 361 GVEFLYTSKESTFINMTRVDSMDNDAYIAAIIENRYOSLVIGAPRYOHIGLVAMFR 420  
Db 378 GATLPPNMSPTFINMSQENVDMRDSYLGSTELALMKGVOSLVIGAPRYOHIGKAVIF 437  
Qy 421 QNTGMMESNANVKTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGGQVSVCP 480  
Db 438 QVSRQWMMKAEVIGTQIGSYFGASLCSVDVDTGSTDVLIGAPHYEQTRGGQVSVCP 497  
Qy 481 PRGQARWOCDAVLYXGQGPWGRFGALTVLDVNDKLTVAIGAPGEDNRGANVLF 540  
Db 498 PRGMR-RWMCDAVLYXGQGPWGRFGALTVLDVNDKLTVAIGAPGEDNRGANVLF 556  
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGOSLGGQDPTMDGLVDLTVGAQGHVLLRSQ 600  
Db 557 HGVLGPISPSHSQRIAGSKLSPRLQYFGOSLGGQDPTMDGLVDLTVGAQGHVLLRSQ 616  
Qy 601 PVLRYKAIMFNPREVARNVFECDQYVKGKEGEVRVCLHVOKSTRDLREGOIQSVT 660  
Db 617 PVLWVGVMQFIPAEIPRSAFECEGEVSEQTLVQSNICLYIDKRSKLLGSRDLQSSVT 676  
Qy 661 YDLALDSGRPHSRAVNETKSTRQOVGLTQTCETLKLQPNCEDEPVSPIVRLNF 720  
Db 677 LDIALAPGRISPRAIFQETKRSLSRVVGLKAHCENFNLPLPSCEVDSVPIILRLNF 736  
Qy 721 SLVGTPLSAFAGNLPVLAEDAQRLFTALPPEKNCGNINICODDLSTFSFMSLDCLVG 780  
Db 737 TLVGKPLAIFRNLPRMLAALAQRYFTASLPFEKNCGADHICQDNLGSPFPLKSLVVG 796  
Qy 781 GPREPNVTVTRNDGEDSYRTQVTFPPDLSTYRKVSTLQNRQSRMRLACBASSTEV 840  
Db 797 SNLELNAEVVMVNDGEDSYRTQVTFPPDLSTYRKVSTLQNRQSRMRLACBASSTEV 854  
Qy 841 SGALKSTSCSINHPIFENSEVTNITFEDVDSKSLGNKLLKANTYSENNMPTNKTEF 900  
Db 855 SGTWSTSCSINHPIFENSEVTNITFEDVDSKSLGNKLLKANTYSENNMPTNKTEF 914  
Qy 901 QLELPVYAYVMVTVSHGVSTKYLNFTAS-ENTSRVMQHOVOVSNLQORSPLISLVFLVP 959  
Db 915 QLELPVYAYVMVTVSHGVSTKYLNFTAS-ENTSRVMQHOVOVSNLQORSPLISLVFLVP 974  
Qy 960 VRLNQVIWDRPOVTSSENTSSTCHTKERLPSHSDFLAELRKAPVNCSTAVCORIQCDI 1019  
Db 975 VEINQEAIVMMDVEVSHPOQNPDLRCSSEKIAIPASDFLAHIQKNPVLDCSIAIGCLRFRCDV 1034  
Qy 1020 PFGIOSEFNATIKGNISFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSOTE 1079  
Db 1035 PFSFVQEEELDTLKGNLSPGMVROILOKQVSVSVAEIIIFDTSYSQLPQGEAFMRAQTI 1094  
Qy 1080 TKVPEFVNPPLPLIVGSSVGGLLLLALITPAALYKLGFFKQYKDMMSSE 1128  
Db 1095 TVEKYVNHPIPLIVGSSVGGLLLLALITPAALYKLGFFKQYKDMMSSE 1143

Search completed: May 4, 2003, 13:39:19  
Job time: 21.3333 secs

GenCore version 5.1.4 p5 4578  
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OM protein - protein search, using sw model

Run on: May 4, 2003, 13:31:59 ; Search time 17.333 Seconds  
(without alignments)  
1930.031 Million cell updates/sec

Title: US-09-902-481b-5

Perfect score: 5876

Sequence: 1 FNLDTENAMTFQENARGFGQ.....FKROYKDWMSGGPPGAEFQ 1137

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

1 number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents, AA:\*

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2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
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4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
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6: /cgn2\_6/prodata/1/1aa/Backfilltest1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score  | Query Match | Length | ID                  | Description        |
|------------|--------|-------------|--------|---------------------|--------------------|
| 1          | 5862   | 99.8        | 1153   | 1 US-08-173-497-3   | Sequence 3, Appli  |
| 2          | 5862   | 99.8        | 1153   | 1 US-08-286-889-3   | Sequence 3, Appli  |
| 3          | 5862   | 99.8        | 1153   | 1 US-08-485-618-3   | Sequence 3, Appli  |
| 4          | 5862   | 99.8        | 1153   | 1 US-08-362-652-3   | Sequence 3, Appli  |
| 5          | 5862   | 99.8        | 1153   | 2 US-08-605-672-3   | Sequence 3, Appli  |
| 6          | 5862   | 99.8        | 1153   | 2 US-08-482-293A-3  | Sequence 3, Appli  |
| 7          | 5862   | 99.8        | 1153   | 2 US-08-943-363-3   | Sequence 3, Appli  |
| 8          | 5862   | 99.8        | 1153   | 4 US-09-193-043-3   | Sequence 3, Appli  |
| 9          | 5862   | 99.8        | 1153   | 4 US-09-688-307A-3  | Sequence 3, Appli  |
| 10         | 5831.5 | 99.2        | 1152   | 2 US-08-476-062A-43 | Sequence 3, Appli  |
| 11         | 5831.5 | 99.2        | 1152   | 5 PCT-US96-01314-43 | Sequence 43, Appli |
| 12         | 5831.5 | 99.2        | 1152   | 6 5424399-2         | Patent No. 5424399 |
| 13         | 3469   | 59.0        | 1163   | 2 US-08-476-062A-44 | Sequence 44, Appli |
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| 28 | 3411   | 58.0 | 1161 | 2 US-08-605-672-2   | Sequence 2, Appli  |
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| 39 | 3323.5 | 55.0 | 1161 | 4 US-09-193-043-55  | Sequence 55, Appli |
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| 41 | 3225.5 | 54.9 | 1161 | 1 US-08-485-618-55  | Sequence 55, Appli |
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## ALIGNMENTS

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RESULT 1
US-08-173-497-3
; Sequence 3, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vliet, Monica
; TITLE OF INVENTION: No. 5437958e1 Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Bornum
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/173,497
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO. 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-3
; Query Match 99.8%; Score 5862; DB 1; Length 1153;
; Best Local Similarity 99.3%; Pred. No. 0;
; Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
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DB 17 FNLDTENAMTFQENARGFGQSVVLOGSRVVGAPQEIIVANQKSLVQCDYSTGSCBPI 76

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Db 137 FPEALAGCPOEDSDIAPLVDSGSSIIIPHDPRAKEPISTWEOUKSKTFLSLMOYSEEF 196
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Db 617 PVLRYKAIEMFNPREVARVNFECNDQVVKGEAGEVRCVLAVOKSTRDLREGQIQSVVT 676
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Db 677 YLALDSGRPHRAVENETKNSRROTQVLGLTORCETLKLQPNCTEDPVPPIVRLNLF 736
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Db 977 RLNQTIVIMDRPOVTSENISSCTCHTERLPSHSDFLAELIRKAPVNVCSIAVCORIQCDIP 1036
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RESULT 2
US-08-286-889-3
; Sequence 3, Application US/08286889
; Patent No. 5470953
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Mich
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/286,889
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: P38,659
; REFERENCE/DOCKET NUMBER: 27866/32168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-286-889-3

Query Match 99.8%; Score 5862; DB 1; Length 1153;
Beet Local Similarity 99.3%; Pred. No. 0;
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

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Qy 121 FPEALAGCPOEDSDIAPLVDSGSSIIIPHDPRAKEPISTWEOUKSKTFLSLMOYSEEF 180
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QY 421 QNTGMMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYYEOTRGQVSVCP 480
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DB 661 YDLALDSGRPHSRVFNETKNSFRQTOVLGLTQTCETLKLQPNCTEDPVSPVIVRLNLF 720
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RESULT 3
US-08-485-618-3
; Sequence 3, Application US/08485618
; Patent No. 5728533
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 103
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Seear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,618
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/286,889
; FILING DATE: 5-AUG-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/362,652
; FILING DATE: 21-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/32797
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-618-3
;
Query Match 99.8%; Score 5862; DB 1; Length 1153;
Beat Local Similarity 99.3%; Pred. No. 0;
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

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DB 17 FNLDENMTFQENARGFQSGVVOLOGSRVYVGAPOEIVAAQNRSLVQCDYSTGSCBPI 76
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DB 317 NPEALKTIONOLREKIPALIEGTQGTSSSFHEHMSQEGFSAATISNGPLISTVGSYDMAG 376
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857 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGNKLLKXANTSENNMERTNKTER 916
QY 901 QLELPVKYAVYVTVSGVSTKYLNFASENTSRWQHQVQVNLGORSPLISLVPLVPY 960
Db 917 QLELPVKYAVYVTVSGVSTKYLNFASENTSRWQHQVQVNLGORSPLISLVPLVPY 976
QY 961 RLNQVYIMDRPOVTFSENLSSTCHTERLPSHSDPLAELKAPVNCSTAVCORICODIP 1020
Db 977 RLNQVYIMDRPOVTFSENLSSTCHTERLPSHSDPLAELKAPVNCSTAVCORICODIP 1036
QY 1021 FFGIOEFNATLKGNTLSPDWYIKTSHNHLIIVSTABILLFNDVSFTLLPGGAFVRSQTER 1080
Db 1037 FFGIOEFNATLKGNTLSPDWYIKTSHNHLIIVSTABILLFNDVSFTLLPGGAFVRSQTER 1096
QY 1081 KXEPFVVPNPLPIVSSVSGILLLITLITLALYKLGFPKQYKDMSEGPPAEAPQ 1137
Db 1097 KXEPFVVPNPLPIVSSVSGILLLITLITLALYKLGFPKQYKDMSEGPPAEAPQ 1153

RESULT 4
US-08-362-652-3
; Sequence 3, Application US/08362652
; Patent No. 5766850
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,652
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/286,889
; FILING DATE: 5-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.

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; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/32391
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-362-652-3

Query Match 99.8%; Score 5862; DB 1; Length 1153;
Best Local Similarity 99.3%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 1129; Conservative 7;

QY 1 FNLDTENAMTFOENARFGQSVVLOQSRVVGAPQEIYAANQRLSYQCDYSTGSCBPI 60
Db 17 FNLDTENAMTFOENARFGQSVVLOQSRVVGAPQEIYAANQRLSYQCDYSTGSCBPI 76
QY 61 RLQVPEAVNMSLGSLAATTSPPOLLACGPTVHOTCSENTYVKGLCTLFSGNLFQOPK 120
Db 77 RLQVPEAVNMSLGSLAATTSPPOLLACGPTVHOTCSENTYVKGLCTLFSGNLFQOPK 136
QY 121 FPEALRGCPQOEBSDLAFIVDGSGLIIPHDPRAKFISTWELKKSKTLPFLMOYSEEF 180
Db 137 FPEALRGCPQOEBSDLAFIVDGSGLIIPHDPRAKFISTWELKKSKTLPFLMOYSEEF 196
QY 181 RIHFTFEKQNNPNRSLIKPITOLLGRTHTATGIRKVRBELFNITNGARKNAFKILILI 240
Db 197 RIHFTFEKQNNPNRSLIKPITOLLGRTHTATGIRKVRBELFNITNGARKNAFKILIVI 256
QY 241 TDEGERDPLGIEDYIPEADREGVIRYIYICGDARSEKSRQELNTVASKPRDHFQIN 300
Db 257 TDEGERDPLGIEDYIPEADREGVIRYIYICGDARSEKSRQELNTVASKPRDHFQIN 316
QY 301 NFEALKTIONOLREKIPAIEGTQTSSSSFEHMSQEGFSAITNSGPLSTVSGSYDMAG 360
Db 317 NFEALKTIONOLREKIPAIEGTQTSSSSFEHMSQEGFSAITNSGPLSTVSGSYDMAG 376
QY 361 GVFLYTSKEKSTFINMTVDSQMDNAYLGVAAILLRNRVOSLVLAGPRYOHIGLVAMFR 420
Db 377 GVFLYTSKEKSTFINMTVDSQMDNAYLGVAAILLRNRVOSLVLAGPRYOHIGLVAMFR 436
QY 421 QNTGMBESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTREGQVSVCP 480
Db 437 QNTGMBESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTREGQVSVCP 496
QY 481 PRGQBARQOCDAVLVYGEQGPWGRFGAALTVDVNGDKLTDVALGAGEEDNRGAVALF 540
Db 497 PRGQBARQOCDAVLVYGEQGPWGRFGAALTVDVNGDKLTDVALGAGEEDNRGAVALF 556
QY 541 HGTSGSGISPSHSORLQAGSLKSLRQLQYFGOSLSGGODLTMDGLVDLVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSORLQAGSLKSLRQLQYFGOSLSGGODLTMDGLVDLVGAQGHVLLRSQ 616
QY 601 PVLRYKAIMENPREVAVNVEECNDQVVKKEAGEVAVCHLVOKSTRDRRREGQIOSVVT 660
Db 617 PVLRYKAIMENPREVAVNVEECNDQVVKKEAGEVAVCHLVOKSTRDRRREGQIOSVVT 676
QY 661 YDLALDSGRPHSRAVFNENKSTRQTOVLGLTQTCETLKLQPNCEIDEPVSIPLRLNF 720
Db 677 YDLALDSGRPHSRAVFNENKSTRQTOVLGLTQTCETLKLQPNCEIDEPVSIPLRLNF 736
QY 721 SLVGTPLSAFNGRLPVLAEDQRLFTALFPPEKNGCNDNICODDLSTFFSMISDCLVYG 780
Db 737 SLVGTPLSAFNGRLPVLAEDQRLFTALFPPEKNGCNDNICODDLSTFFSMISDCLVYG 796
QY 791 GPREFNTVTVVRNDEGDSYRTQVTFPPPLDSYRKVSTTLONORSORSMRLACESASTEV 840

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Db 797 GREENVTVANDEGDSYRTQVTEFFPLDLSYRKVSTLQONORSWELACESASTEV 856  
Qy 841 SGALKSTSCSINHPIFENSEEVTNITFDVDSKASLGNKLLKAVNTSENNPRTKTEF 900  
Db 857 SGALKSTSCSINHPIFENSEEVTNITFDVDSKASLGNKLLKAVNTSENNPRTKTEF 916  
Qy 901 QLELPEVKAIVYVWVTSVSHGVSTKYLNTFTASENSTRVMOHQYVSNLQGRSLPISLVLVAV 960  
Db 917 QLELPEVKAIVYVWVTSVSHGVSTKYLNTFTASENSTRVMOHQYVSNLQGRSLPISLVLVAV 976  
Qy 961 RINQTVIMDRPOVTESENLSSTCHTKERLPSHSDFLAELRKAPVYVNCSTAVQCRIQCIDIP 1020  
Db 977 RINQTVIMDRPOVTESENLSSTCHTKERLPSHSDFLAELRKAPVYVNCSTAVQCRIQCIDIP 1036  
Qy 1021 PFGIOEFPAATLKGNLSFPMYIKTSHNHLIYSTAELFNDSVFTLLPGQAFVRSQTEI 1080  
Db 1037 PFGIOEFPAATLKGNLSFPMYIKTSHNHLIYSTAELFNDSVFTLLPGQAFVRSQTEI 1096  
Qy 1081 KYEPFEPVNPPLIVGSSVGGLLLLALITPAALYKLGFPKRYKXNMSBEGGPQAEPO 1137  
1097 KYEPFEPVNPPLIVGSSVGGLLLLALITPAALYKLGFPKRYKXNMSBEGGPQAEPO 1153

RESULT 5  
US-08-605-672-3  
Sequence 3, Application US/08605672  
Patent No. 5817515  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Van der Vieren, Monica  
TITLE OF INVENTION: No. 5817515el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 103  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, 6300 Sear Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/605,672  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/173,497  
FILING DATE: 23-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/286,889  
FILING DATE: 5-AUG-1994  
APPLICATION NUMBER: US 08/362,652  
FILING DATE: 21-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27866/32684  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1153 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-605-672-3

Query Match 99.8%; Score 5862; DB 2; Length 1153;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ENLDTENAMTFOENARGFQSGVYVQGSRRVVGAPQOEIVAAVNOGSLYQCDYSTGSCERI 60  
Db 17 FNLDTENAMTFOENARGFQSGVYVQGSRRVVGAPQOEIVAAVNOGSLYQCDYSTGSCERI 76  
Qy 61 RLOVEVAVNNSLGLSLAATTSPPOLLAGPTVHOTGSENNYVKGCLPFGSNLQOQOK 120  
Db 77 RLOVEVAVNNSLGLSLAATTSPPOLLAGPTVHOTGSENNYVKGCLPFGSNLQOQOK 136  
Qy 121 PFEALRGCPQEDSDIAPLVDGSGSIIIPHDPRRKEFISTVMEQLKXSTLSLMQYSEEF 180  
Db 137 PFEALRGCPQEDSDIAPLVDGSGSIIIPHDPRRKEFISTVMEQLKXSTLSLMQYSEEF 196  
Qy 181 RIHFTPEKPNPNPRSLIKPITQLLGRTHATGIRKRVRLFNITNGARKNAFKILILI 240  
Db 197 RIHFTPEKPNPNPRSLIKPITQLLGRTHATGIRKRVRLFNITNGARKNAFKILIVI 256  
Qy 241 TDGEKFGDPLGYEDVYIPADREGVIRYVIGVDAPRSRKEQELMTVASKPRDHVFOIN 300  
Db 257 TDGEKFGDPLGYEDVYIPADREGVIRYVIGVDAPRSRKEQELMTVASKPRDHVFOIN 316  
Qy 301 NFEALKTIONOLREKIPALIEGTQTGSSSSFEHEMSQEGFSAITNGPLSTVGSYDMAG 360  
Db 317 NFEALKTIONOLREKIPALIEGTQTGSSSSFEHEMSQEGFSAITNGPLSTVGSYDMAG 376  
Qy 361 GVFLYTSKSKSTFINMTVDSQDMNDAYLGYAAAILLRNVOSLVIGAPRYOHIGLVAMFR 420  
Db 377 GVFLYTSKSKSTFINMTVDSQDMNDAYLGYAAAILLRNVOSLVIGAPRYOHIGLVAMFR 436  
Qy 421 QNTGMMESNANKGQIGAYFGASLCSVDVNSGSTDLVLGAPHYVQTRGGQVSVCEL 480  
Db 437 QNTGMMESNANKGQIGAYFGASLCSVDVNSGSTDLVLGAPHYVQTRGGQVSVCEL 496  
Qy 481 PGGQARPNQCDAYLVYGEQOQPMGRFGAALTVYGVNCGDLTVDAIGAGEEDNRGAAYLF 540  
Db 497 PGGQARPNQCDAYLVYGEQOQPMGRFGAALTVYGVNCGDLTVDAIGAGEEDNRGAAYLF 556  
Qy 541 HGTSGSGISPSHSORIASKSLSPRLQYFGQSLSGGQDVTMDGLVDLTVGAQGHVILLRSQ 600  
Db 557 HGTSGSGISPSHSORIASKSLSPRLQYFGQSLSGGQDVTMDGLVDLTVGAQGHVILLRSQ 616  
Qy 601 PVLARKALMEFNPREVAVNVEPCNDQVYKKGKAGEVRCVLAHVQKSTRBRLRREGOIOSVVT 660  
Db 617 PVLARKALMEFNPREVAVNVEPCNDQVYKKGKAGEVRCVLAHVQKSTRBRLRREGOIOSVVT 676  
Qy 661 YDLALDSGRPHRAVFNETKNSSTRQTOVLGLTOTCEITKLQLPNCIEDPVSPYILRLNF 720  
Db 677 YDLALDSGRPHRAVFNETKNSSTRQTOVLGLTOTCEITKLQLPNCIEDPVSPYILRLNF 736  
Qy 721 SLVGTPLSAFGNLRPVLAEDAQRLEFTALPPEPKNGCNDNICODDLSTFSPMSLCLVVG 780  
Db 737 SLVGTPLSAFGNLRPVLAEDAQRLEFTALPPEPKNGCNDNICODDLSTFSPMSLCLVVG 796  
Qy 781 GREENVTVYVWVTSVSHGVSTKYLNTFTASENSTRVMOHQYVSNLQGRSLPISLVLVAV 840  
Db 797 GREENVTVYVWVTSVSHGVSTKYLNTFTASENSTRVMOHQYVSNLQGRSLPISLVLVAV 856  
Qy 841 SGALKSTSCSINHPIFENSEEVTNITFDVDSKASLGNKLLKAVNTSENNPRTKTEF 900  
Db 857 SGALKSTSCSINHPIFENSEEVTNITFDVDSKASLGNKLLKAVNTSENNPRTKTEF 916  
Qy 901 QLELPEVKAIVYVWVTSVSHGVSTKYLNTFTASENSTRVMOHQYVSNLQGRSLPISLVLVAV 960  
Db 917 QLELPEVKAIVYVWVTSVSHGVSTKYLNTFTASENSTRVMOHQYVSNLQGRSLPISLVLVAV 976  
Qy 961 RINQTVIMDRPOVTESENLSSTCHTKERLPSHSDFLAELRKAPVYVNCSTAVQCRIQCIDIP 1020  
Db 977 RINQTVIMDRPOVTESENLSSTCHTKERLPSHSDFLAELRKAPVYVNCSTAVQCRIQCIDIP 1036

QY 1021 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGGAFVRSQTEI 1080  
DB 1037 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGGAFVRSQTEI 1096  
QY 1081 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFFKQYKDMMSGGPPGABEQ 1137  
DB 1097 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFFKQYKDMMSGGPPGABEQ 1153

RESULT 6  
US-08-482-293A-3  
Sequence 3, Application US/08482293A  
Patent No. 5831029  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
TITLE OF INVENTION: No. 5831029el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 103  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, 6300 Sear Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/482,293A  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/173,497  
FILING DATE: 23-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/286,889  
FILING DATE: 5-AUG-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/362,652  
FILING DATE: 21-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27866/32684  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1153 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-482-293A-3

Query Match 99.8%; Score 5862; DB 2; Length 1153;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 FINDENANTFOENARFGOSVVOLOGSRVVGAPQEIYAANORGLYOCDSYSGCEPI 60  
DB 17 FNDENANTFOENARFGOSVVOLOGSRVVGAPQEIYAANORGLYOCDSYSGCEPI 76  
QY 61 RLQVPEAVNMISGLSLAATSPOLLACPTVHOTCSENTYKGLCFGSLRQOPK 120  
DB 77 RLQVPEAVNMISGLSLAATSPOLLACPTVHOTCSENTYKGLCFGSLRQOPK 136  
QY 121 FPEALRGCEQEDSDIAFLVDGSGSII PHDPRAKEFISTVMEQLKSKTFLSLMOYSEEF 180

DB 137 FPEALRGCEQEDSDIAFLVDGSGSII PHDPRAKEFISTVMEQLKSKTFLSLMOYSEEF 196  
QY 181 RIHFTPEKONPNPNRSLIKPTLGLGRTATGIRKYVRELFNITNGARKAPILILI 240  
DB 197 RIHFTPEKONPNPNRSLIKPTLGLGRTATGIRKYVRELFNITNGARKAPILILI 256  
QY 241 TDGEKRGDPLGYEDVI PEADREGVI RYVIGVDAFRSEKROELTVASKPPRDHVFQIN 300  
DB 257 TDGEKRGDPLGYEDVI PEADREGVI RYVIGVDAFRSEKROELTVASKPPRDHVFQIN 316  
QY 301 NPEALKTIONQUREKIFAIETQTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMAG 360  
DB 317 NPEALKTIONQUREKIFAIETQTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMAG 376  
QY 361 GVELYTSKEKSTFIMNTRVDSMDNDAYGYAAIILRRVOSLYVGAPYOHIGVAMR 420  
DB 377 GVELYTSKEKSTFIMNTRVDSMDNDAYGYAAIILRRVOSLYVGAPYOHIGVAMR 436  
QY 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLGAPHYEQTROGVSVCL 480  
DB 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLGAPHYEQTROGVSVCL 496  
QY 481 PRGQARWOCDAVLYGEOQOPWGRFGAALTIVGDNQKLTVAIGARGEEDNRGAVYLF 540  
DB 497 PRGQARWOCDAVLYGEOQOPWGRFGAALTIVGDNQKLTVAIGARGEEDNRGAVYLF 556  
QY 541 HTSSGSGISPSHSORIASKUSPRLQYFGOSLSGGODLTMCGLVLTGAQGHVLLLSQ 600  
DB 557 HTSSGSGISPSHSORIASKUSPRLQYFGOSLSGGODLTMCGLVLTGAQGHVLLLSQ 616  
QY 601 PVLRYKAIMEFNPREVARVPECNDQVYKKEAGEVRYCLHVOKSTRDLRREGOIOSVT 660  
DB 617 PVLRYKAIMEFNPREVARVPECNDQVYKKEAGEVRYCLHVOKSTRDLRREGOIOSVT 676  
QY 661 YDLALDSGRPHSRANFNETKSTRQTOVLGLTQCEFLKQLPNCIEDPSPYLRLNF 720  
DB 677 YDLALDSGRPHSRANFNETKSTRQTOVLGLTQCEFLKQLPNCIEDPSPYLRLNF 736  
QY 721 SLVGTPLSAFGLRPVLBDAQRLFTALFPPEKONGNINICODDISITFSFMSLCLVVG 780  
DB 737 SLVGTPLSAFGLRPVLBDAQRLFTALFPPEKONGNINICODDISITFSFMSLCLVVG 796  
QY 781 GPREPNVTYVANDGEDSYRQVTFEPPLDLSYRKVSTLQONORSWRACESASSTEV 840  
DB 797 GPREPNVTYVANDGEDSYRQVTFEPPLDLSYRKVSTLQONORSWRACESASSTEV 856  
QY 841 SGALSTSCSINHPIFPENSEVTFTNITPDVDSKASLGKLLIKANVTSENNMPTNKTEF 900  
DB 857 SGALSTSCSINHPIFPENSEVTFTNITPDVDSKASLGKLLIKANVTSENNMPTNKTEF 916  
QY 901 QLELPVKAIVVWVTSHGAVSTKYLNFTASENTSRWMOHOYOVSNLGORSPLSLVFLPV 960  
DB 917 QLELPVKAIVVWVTSHGAVSTKYLNFTASENTSRWMOHOYOVSNLGORSPLSLVFLPV 976  
QY 961 RLNQTVIMDRPQVTESENLSSTCHTKERLPSHSDLELAELRPAVNCISIAVQORIQCIDP 1020  
DB 977 RLNQTVIMDRPQVTESENLSSTCHTKERLPSHSDLELAELRPAVNCISIAVQORIQCIDP 1036  
QY 1021 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGGAFVRSQTEI 1080  
DB 1037 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGGAFVRSQTEI 1096  
QY 1081 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFFKQYKDMMSGGPPGABEQ 1137  
DB 1097 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFFKQYKDMMSGGPPGABEQ 1153

RESULT 7  
US-08-943-363-3  
Sequence 3, Application US/08943363  
Patent No. 5837478  
GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael  
APPLICANT: Van der Vieren, Monica  
TITLE OF INVENTION: No. 5837478el Human 2 Integrin Alpha Subunit  
NUMBER OF SEQUENCES: 114  
CORRESPONDENCE ADDRESS:  
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, 6300 Sear Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/943,363  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/173,497  
FILING DATE: 23-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/286,889  
FILING DATE: 5-AUG-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/362,652  
FILING DATE: 21-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27866/32684  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1153 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-943-363-3

Query Match 99.8%; Score 5862; DB 2; Length 1153;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Db 1 FUNDENANTPOENARFGQSVVQLOGSRVVGAPQEIYAANORGLXOCDYSTGCEPI 60  
17 FUNDENANTPOENARFGQSVVQLOGSRVVGAPQEIYAANORGLXOCDYSTGCEPI 76  
Qy 61 RLOVPEAVNMISGLSLAATSPQLLACPTVHOTCSENTYKGLCFGLSRLRQOPK 120  
77 RLOVPEAVNMISGLSLAATSPQLLACPTVHOTCSENTYKGLCFGLSRLRQOPK 136  
Db 121 PEPALRGCCQEDSDIAFLVDGSSIIIPHDPRRAKEFTSTVMEOLKSKTLFSIMQSEEP 180  
137 PEPALRGCCQEDSDIAFLVDGSSIIIPHDPRRAKEFTSTVMEOLKSKTLFSIMQSEEP 196  
Qy 181 RHFTPEKEPNNPNSLKLPIQLGRHTATGIRKVVRELNTINGAKNAFKLLVLI 240  
197 RHFTPEKEPNNPNSLKLPIQLGRHTATGIRKVVRELNTINGAKNAFKLLVLI 256  
Db 241 TQGEKFGDPLGYEDVLPADREGVIRYVIGVDAPFRSEKSRQELANTVASKPPRDHYFOIN 300  
257 TQGEKFGDPLGYEDVLPADREGVIRYVIGVDAPFRSEKSRQELANTVASKPPRDHYFOIN 316  
Qy 301 NFEALKTIONQLREKIPALIEGTGTGSSSSFEHMSQEGFSAATISNGPLISTVGSYDMAG 360  
317 NFEALKTIONQLREKIPALIEGTGTGSSSSFEHMSQEGFSAATISNGPLISTVGSYDMAG 376

Qy 361 GVFLYTSKEKSTFINMTREVDSDMDAYLYGAAAILLRNRVOSLVGAPRYOHIGLVAMER 420  
377 GVFLYTSKEKSTFINMTREVDSDMDAYLYGAAAILLRNRVOSLVGAPRYOHIGLVAMER 436  
Db 421 QNTGWESNANVKTQIQIAYFGASICSVDVDSNGSTDLVLGAPHYEOTRGQVSVCE 480  
437 QNTGWESNANVKTQIQIAYFGASICSVDVDSNGSTDLVLGAPHYEOTRGQVSVCE 496  
Qy 481 PRGORARQCDALVYGBEQGPWGRFGAALTVDVNGDKLTDVAIGAPDEENRGAVYLF 540  
497 PRGORARQCDALVYGBEQGPWGRFGAALTVDVNGDKLTDVAIGAPDEENRGAVYLF 556  
Db 541 HGTSGSGISPSHSQRISAKLSPLRQYFGOSISGGQDLMGDLVLTGAGQGHVLLLSQ 600  
557 HGTSGSGISPSHSQRISAKLSPLRQYFGOSISGGQDLMGDLVLTGAGQGHVLLLSQ 616  
Qy 601 PYLRVKAIMEFNPREVANRVECDQVVKKEAGSVRYVCLHVQKSTRDLRREGQIQSVT 660  
617 PYLRVKAIMEFNPREVANRVECDQVVKKEAGSVRYVCLHVQKSTRDLRREGQIQSVT 676  
Db 661 YDLALDSGRPHRAVENETKSTRROTOLGLTORCETLKLQPCIBDPVSPILRLNF 720  
677 YDLALDSGRPHRAVENETKSTRROTOLGLTORCETLKLQPCIBDPVSPILRLNF 736  
Qy 721 SLVGTPLSAFGLRPVLAEDAQRLLFTALFPFEKNGNDNI CODDLSITFSFMSLCLVVG 780  
737 SLVGTPLSAFGLRPVLAEDAQRLLFTALFPFEKNGNDNI CODDLSITFSFMSLCLVVG 796  
Db 781 GREFNVTVTVNDESDSYRTQVTFEPPLDLSYRKVSTLQNRQSRWRLACESASTEV 840  
797 GREFNVTVTVNDESDSYRTQVTFEPPLDLSYRKVSTLQNRQSRWRLACESASTEV 856  
Qy 841 SGALSTGCSINHPIFPENSEVTENITFDVDSKASLGNKLLKAVTSENNPRNKIEF 900  
857 SGALSTGCSINHPIFPENSEVTENITFDVDSKASLGNKLLKAVTSENNPRNKIEF 916  
Db 901 QLELPVKAIVYVWVTSHGSTKYLNFTASENSTRVMOHQYVSNIGORSPLSTVLVAV 960  
917 QLELPVKAIVYVWVTSHGSTKYLNFTASENSTRVMOHQYVSNIGORSPLSTVLVAV 976  
Qy 961 RLNQTVIMDRPQVTFSENLSSTCHTKERLPSHSDFLAELRKA PVVNCISAVQRIQCDIP 1020  
977 RLNQTVIMDRPQVTFSENLSSTCHTKERLPSHSDFLAELRKA PVVNCISAVQRIQCDIP 1036  
Db 1021 PFGIOEERPAITKGNLSFPMYIKTSHNLLIVSTAEILFNDSVFTLLPQGA FVRSOTET 1080  
1037 PFGIOEERPAITKGNLSFPMYIKTSHNLLIVSTAEILFNDSVFTLLPQGA FVRSOTET 1096  
Qy 1081 KYEPFEPNPLPLIYGSSVGGLLALITAAIYKLGFFRQYKDMMSSEGPPGAEPO 1137  
1097 KYEPFEPNPLPLIYGSSVGGLLALITAAIYKLGFFRQYKDMMSSEGPPGAEPO 1153

RESULT 8  
US-09-193-043-3  
Sequence 3, Application US/09193043  
Patent No. 6251395  
GENERAL INFORMATION:  
APPLICANT: Gallatin, Michael W.  
APPLICANT: Van der Vieren, Monica  
TITLE OF INVENTION: No. 6251395el Human 2  
FILE REFERENCE: 27866/35004  
CURRENT APPLICATION NUMBER: US/09/193,043  
CURRENT FILING DATE: 1998-11-16  
EARLIER APPLICATION NUMBER: 08/173,497  
EARLIER FILING DATE: 1993-12-23  
EARLIER APPLICATION NUMBER: 08/286,889  
EARLIER FILING DATE: 1994-08-05  
EARLIER APPLICATION NUMBER: 08/362,652  
EARLIER FILING DATE: 1994-12-21  
EARLIER APPLICATION NUMBER: 08/943,363  
EARLIER FILING DATE: 1997-10-03

NUMBER OF SEQ ID NOS: 114  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 3  
LENGTH: 1153  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-193-043-3

Query Match 99.8%; Score 5862; DB 4; Length 1153;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 FNDLTENAMTFOENARFGQSVVVOLOGSRVVGAPOEIVANORGSIXOCDYSTGSCBPI 60  
DB 17 FNDLTENAMTFOENARFGQSVVVOLOGSRVVGAPOEIVANORGSIXOCDYSTGSCBPI 76  
QY 61 RLQVPEAVNMSLGLSLAATTSPPOLLACGPTVHOTCSENTYVKGICFLFGSNLRQOPQK 120  
DB 77 RLQVPEAVNMSLGLSLAATTSPPOLLACGPTVHOTCSENTYVKGICFLFGSNLRQOPQK 136  
QY 121 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFISTVMEQLKSKTLFSLMOYSEEF 180  
DB 137 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFISTVMEQLKSKTLFSLMOYSEEF 196  
QY 181 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 240  
DB 197 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 256  
QY 241 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKRSQELNTVASKPRDHVFOIN 300  
DB 257 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKRSQELNTVASKPRDHVFOIN 316  
QY 301 NFEALKTIONQUREKIPIALGTOGTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMWG 360  
DB 317 NFEALKTIONQUREKIPIALGTOGTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMWG 376  
QY 361 GVLPLYSKEKSTINMTRVDSQNDAYLGYAAIIIRNRVQSVLQAPRYQITGLVAMER 420  
DB 377 GVLPLYSKEKSTINMTRVDSQNDAYLGYAAIIIRNRVQSVLQAPRYQITGLVAMER 436  
QY 421 QNTGMESSNANVGTIOIGAFGASLGSVDVDSGSTDLVIGAPHYEBOTRGQVSCPI 480  
DB 437 QNTGMESSNANVGTIOIGAFGASLGSVDVDSGSTDLVIGAPHYEBOTRGQVSCPI 496  
QY 481 PRGQARAWQCDAYLYGEOGQPMWRFGAALTVDVNGDKLTVAIGAPEGEDNRGAIVYLE 540  
DB 497 PRGQARAWQCDAYLYGEOGQPMWRFGAALTVDVNGDKLTVAIGAPEGEDNRGAIVYLE 556  
QY 541 HGTSGSGISPSHSQRIAGSKSLRLOYFGQSLSGGODLTMDGLVDLTGAGHVLILRSQ 600  
DB 557 HGTSGSGISPSHSQRIAGSKSLRLOYFGQSLSGGODLTMDGLVDLTGAGHVLILRSQ 616  
QY 601 PVLRAVIAEFNREVARANVEBCNDQVVGKEAGEVRVCLHVOKSTRDRRBEQIOISVVT 660  
DB 617 PVLRAVIAEFNREVARANVEBCNDQVVGKEAGEVRVCLHVOKSTRDRRBEQIOISVVT 676  
QY 661 YDLALDSGRPHSAVFNETKSTRROTOVGLTQTCETLKLQPLNCIEDPVSIVLRINF 720  
DB 677 YDLALDSGRPHSAVFNETKSTRROTOVGLTQTCETLKLQPLNCIEDPVSIVLRINF 736  
QY 721 SLVGTLSLAFGNLRPVLAEDAOQLFTALPFEKNCNDNIQQDDLSITFSFMSLDCLVVG 780  
DB 737 SLVGTLSLAFGNLRPVLAEDAOQLFTALPFEKNCNDNIQQDDLSITFSFMSLDCLVVG 796  
QY 781 GPREFNVTYVRNDSGYRTOVTFPPLDLSRYKSTLONORSQSWRLACSSASTEV 840  
DB 797 GPREFNVTYVRNDSGYRTOVTFPPLDLSRYKSTLONORSQSWRLACSSASTEV 856  
QY 841 SGALKSTSCSINHPIFPENSEVFNITFDVDSKASLGKLLKANTYSENMRRTKTEF 900  
DB 857 SGALKSTSCSINHPIFPENSEVFNITFDVDSKASLGKLLKANTYSENMRRTKTEF 916  
QY 901 QLELPYKAVYVNVVTSYGVTYKTLNFTASENTSRVMOHOYQVSNLQORSLPISLVLVPU 960

DB 917 QLELPYKAVYVNVVTSYGVTYKTLNFTASENTSRVMOHOYQVSNLQORSLPISLVLVPU 976  
QY 961 RINQOYIMDRPOVTFSENSTCTCHERLPSHSDFLAEILRKAIPVNVCSIAVOCRIQCDIP 1020  
DB 977 RINQOYIMDRPOVTFSENSTCTCHERLPSHSDFLAEILRKAIPVNVCSIAVOCRIQCDIP 1036  
QY 1021 FFGIOEFNATLKGSLFSDWYIKTSHNHLIVSTAEILFENDSVFTLLPGOGAFVRSQET 1080  
DB 1037 FFGIOEFNATLKGSLFSDWYIKTSHNHLIVSTAEILFENDSVFTLLPGOGAFVRSQET 1096  
QY 1081 KVEPEVNPPLIYGVSSVGLLALITLALYKGFPRQYKDMMSSEGGPGABEQ 1137  
DB 1097 KVEPEVNPPLIYGVSSVGLLALITLALYKGFPRQYKDMMSSEGGPGABEQ 1153

RESULT 9  
US-09-688-307A-3  
Sequence 3, Application US/09688307A

Patent No. 6432404  
GENERAL INFORMATION:  
APPLICANT: Gallatin, Michael W.  
APPLICANT: Van der Vliet, Monica  
TITLE OF INVENTION: No. 6432404el Human Beta-2  
FILE REFERENCE: 27866/36646  
CURRENT FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: US/09/688, 307A  
PRIOR FILING DATE: 1998-11-16  
PRIOR APPLICATION NUMBER: 08/605,672  
PRIOR FILING DATE: 1996-02-22  
PRIOR APPLICATION NUMBER: 08/173,497  
PRIOR FILING DATE: 1993-12-23  
PRIOR APPLICATION NUMBER: 08/286,889  
PRIOR FILING DATE: 1994-08-05  
PRIOR APPLICATION NUMBER: 08/362,652  
PRIOR FILING DATE: 1994-12-21  
PRIOR APPLICATION NUMBER: 08/943,363  
PRIOR FILING DATE: 1997-10-03  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 3  
LENGTH: 1153  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-688-307A-3

Query Match 99.8%; Score 5862; DB 4; Length 1153;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 FNDLTENAMTFOENARFGQSVVVOLOGSRVVGAPOEIVANORGSIXOCDYSTGSCBPI 60  
DB 17 FNDLTENAMTFOENARFGQSVVVOLOGSRVVGAPOEIVANORGSIXOCDYSTGSCBPI 76  
QY 61 RLQVPEAVNMSLGLSLAATTSPPOLLACGPTVHOTCSENTYVKGICFLFGSNLRQOPQK 120  
DB 77 RLQVPEAVNMSLGLSLAATTSPPOLLACGPTVHOTCSENTYVKGICFLFGSNLRQOPQK 136  
QY 121 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFISTVMEQLKSKTLFSLMOYSEEF 180  
DB 137 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFISTVMEQLKSKTLFSLMOYSEEF 196  
QY 181 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 240  
DB 197 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 256  
QY 241 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKRSQELNTVASKPRDHVFOIN 300  
DB 257 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKRSQELNTVASKPRDHVFOIN 316  
QY 301 NFEALKTIONQUREKIPIALGTOGTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMWG 360

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Db 317 NEALKTIONQUREKIFALEGTQTSSESSFEHEMSQEGFSAITNSGPIILSTVGSYDMAG 376
Qy 361 GVFLYTSKESKSTFINNTRVDSMDNDAYLGAAAIILRNVSQVLGAPRYOHIGLVAMER 420
Db 377 GVFLYTSKESKSTFINNTRVDSMDNDAYLGAAAIILRNVSQVLGAPRYOHIGLVAMER 436
Qy 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVILGAPHYEEOTRGQVSVCP 480
Db 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVILGAPHYEEOTRGQVSVCP 496
Qy 481 PRGQRRMOCDAVLVGEQGPWGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 540
Db 497 PRGQRRMOCDAVLVGEQGPWGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 556
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGODLTMDGLVDLTVAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGODLTMDGLVDLTVAQGHVLLRSQ 616
Qy 601 PVLRYKAIMEFNEVARAVNECNDQVVKGEAGEVAVCLHVQKSTRDLREGQIQSVVT 660
Db 617 PVLRYKAIMEFNEVARAVNECNDQVVKGEAGEVAVCLHVQKSTRDLREGQIQSVVT 676
Qy 661 YDLALDSGRPHSAVAVNETKSTRQTOVGLTQTCETLKLQPCIEDPVSPIVRLNF 720
Db 677 YDLALDSGRPHSAVAVNETKSTRQTOVGLTQTCETLKLQPCIEDPVSPIVRLNF 736
Qy 721 SLVGTPLSAFGNRPVLAEDAOQLFTALPFEGKCGNDNICODDLSTFSPSLDCLVVG 780
Db 737 SLVGTPLSAFGNRPVLAEDAOQLFTALPFEGKCGNDNICODDLSTFSPSLDCLVVG 796
Qy 781 GPREFNVTVVRNDSYKRTQVTFEPPLDLSYRKVSTLQNSQSRWRLACESASTEV 840
Db 797 GPREFNVTVVRNDSYKRTQVTFEPPLDLSYRKVSTLQNSQSRWRLACESASTEV 856
Qy 841 SGALKSTSCSINRIPPENSEVTFTFDVDSKASLGNKLLKANTYSENMRITKTEF 900
Db 857 SGALKSTSCSINRIPPENSEVTFTFDVDSKASLGNKLLKANTYSENMRITKTEF 916
Qy 901 QLELPKXVAVVWVTVSHGVSTKYLNFASENTSRVMOHOVSNLQORSPLISLVLVAV 960
Db 917 QLELPKXVAVVWVTVSHGVSTKYLNFASENTSRVMOHOVSNLQORSPLISLVLVAV 976
Qy 961 RLNQTVIMWRPOVTFSENLSTCHTKERLPSHSDFLAELRKAVVNCIAVCORIOCDIP 1020
Db 977 RLNQTVIMWRPOVTFSENLSTCHTKERLPSHSDFLAELRKAVVNCIAVCORIOCDIP 1036
Qy 1021 PRGQRRMOCDAVLVGEQGPWGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 1080
Db 1037 PRGQRRMOCDAVLVGEQGPWGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 1096
Qy 1081 KYEPFVVPNPPLIVGSSVVGILLLALITLALYKLGFEKQYQKMMSEGGPBAEPQ 1137
Db 1097 KYEPFVVPNPPLIVGSSVVGILLLALITLALYKLGFEKQYQKMMSEGGPBAEPQ 1153

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COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 07/212,573
FILING DATE: 28-JUN-1988
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00786/068003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-476-062A-43

Query Match 99.2% Score 5831.5; DB 2; Length 1152;
Best Local Similarity 99.0%; Pred No. 0; Mismatches 3; Indels 1; Gaps 1;
Matches 1126; Conservative 7;

1 FNDLENNAMTPOENARFGQSYYVLOGSRVVGAPQEIYAANQSGSLYXCDYSTGSCBPI 60
17 FNDLENNAMTPOENARFGQSYYVLOGSRVVGAPQEIYAANQSGSLYXCDYSTGSCBPI 76
61 RLQVPEAVNMGLGSLAATTSPPOLLAGCPVHOTCSNTYVKGICFLFGSNLRQOPK 120
77 RLQVPEAVNMGLGSLAATTSPPOLLAGCPVHOTCSNTYVKGICFLFGSNLRQOPK 136
121 PPEALRGCPQESDIAFLVDSGSIIPHDFRRAKEISTVMSQLKSKTLPFLMOYSEBF 180
137 PPEALRGCPQESDIAFLVDSGSIIPHDFRRAKEISTVMSQLKSKTLPFLMOYSEBF 196
181 RLHFTPEKQNNPNRSLIKPIITOLGRTHTATGIRKVVRELFNITNGARKNAFKILILI 240
197 RLHFTPEKQNNPNRSLIKPIITOLGRTHTATGIRKVVRELFNITNGARKNAFKILILI 256
241 TDGEKFGDPLGYEDVLPADREGVIRYVIGVDARFSEKSRQELNTVASKPRDHVFOIN 300
257 TDGEKFGDPLGYEDVLPADREGVIRYVIGVDARFSEKSRQELNTVASKPRDHVFOIN 316
301 NEALKTIONQUREKIFALEGTQTSSESSFEHEMSQEGFSAITNSGPIILSTVGSYDMAG 360
317 NEALKTIONQUREKIFALEGTQTSSESSFEHEMSQEGFSAITNSGPIILSTVGSYDMAG 376
361 GVFLYTSKESKSTFINNTRVDSMDNDAYLGAAAIILRNVSQVLGAPRYOHIGLVAMER 420
377 GVFLYTSKESKSTFINNTRVDSMDNDAYLGAAAIILRNVSQVLGAPRYOHIGLVAMER 436
421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVILGAPHYEEOTRGQVSVCP 480
437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVILGAPHYEEOTRGQVSVCP 496
481 PRGQRRMOCDAVLVGEQGPWGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 540
497 PRGQRRMOCDAVLVGEQGPWGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 556
541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGODLTMDGLVDLTVAQGHVLLRSQ 600

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DB 556 HGTSGSGISPSHSQRIAGSKSLPRLQYFGQSLSGGODLTMDGLVLDLVGAQGHVILLRSQ 615
QY 601 PVLRYVAIMEFNPREVARYARVNECNDQVVKKEAGEVAVCLHVKQSTRDRREGOIOSVVT 660
DB 616 PVLRYVAIMEFNPREVARYARVNECNDQVVKKEAGEVAVCLHVKQSTRDRREGOIOSVVT 675
QY 661 YDLALDSGRPHRAVFNENKSTRQTOVLGLTQTCETLKLQPNCLIEDEVPSPVLRINF 720
DB 676 YDLALDSGRPHRAVFNENKSTRQTOVLGLTQTCETLKLQPNCLIEDEVPSPVLRINF 735
QY 721 SLVGTPLSAFNGRLPVLAEADAQRLFTALFPFEKNCNDNI CODDLSTFSPMSLDCLVYG 780
DB 736 SLVGTPLSAFNGRLPVLAEADAQRLFTALFPFEKNCNDNI CODDLSTFSPMSLDCLVYG 795
QY 781 GPRESNVTVTVRNDGEDSYRTQVTFPPDLDSYRKVSTLONORSQSMRLACSSASTEV 840
DB 796 GPRESNVTVTVRNDGEDSYRTQVTFPPDLDSYRKVSTLONORSQSMRLACSSASTEV 855
QY 841 SGALKSTSCSINHPIFPENSEVTENITFDVDSKASLGNKLLKANYTSENMPRTNKTEF 900
DB 856 SGALKSTSCSINHPIFPENSEVTENITFDVDSKASLGNKLLKANYTSENMPRTNKTEF 915
QY 901 QLELPVKYAVMYVTVSHGVSTKXLFNFTASBNTSRVMOHQVOVNLGORSPLSLVFLVPV 960
DB 916 QLELPVKYAVMYVTVSHGVSTKXLFNFTASBNTSRVMOHQVOVNLGORSPLSLVFLVPV 975
QY 961 RLNQYIMDRPOVTFSENLSTCHTKERLPSHSDFLAELKAPVNCISIVCORICDIP 1020
DB 976 RLNQYIMDRPOVTFSENLSTCHTKERLPSHSDFLAELKAPVNCISIVCORICDIP 1035
QY 1021 FFGIOEFNATLKGNSLFDWYIKTSHNLLIVSTABILLFNDSVFTLLPGGAFVRSOTET 1080
DB 1036 FFGIOEFNATLKGNSLFDWYIKTSHNLLIVSTABILLFNDSVFTLLPGGAFVRSOTET 1095
QY 1081 KXEPFEVNPPLITVGSSVGGILLALITLALYKLGFFKQYKDNMSEGGPPGAEPQ 1137
DB 1096 KXEPFEVNPPLITVGSSVGGILLALITLALYKLGFFKQYKDNMSEGGPPGAEPQ 1152

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## RESULT 11

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PCT-US96-01314-43
; Sequence 43, Application PC/TUS9601314
; GENERAL INFORMATION:
; APPLICANT: M. Amin Arnaout
; TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
; TITLE OF INVENTION: ANTAGONISTS
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; COMPUTER: IBM PS/2 Model 502 or 555X
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01314
; FILING DATE: 30-JAN-96
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/380,167
; FILING DATE: 30-JAN-95
; ATTORNEY/AGENT INFORMATION:
; NAME: John W. Freeman
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00786/267001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906

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; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; PCT-US96-01314-43
Query Match 99.2%; Score 5831.5; DB 5; Length 1152;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1126; Conservative 7; Mismatches 3; Indels 1; Gaps 1;
QY 1 FNLDENAMTFQENARFGQSVVVOLOGSRVYVGAPOEIVANQSGSLYQCDYSTGSCBEI 60
DB 17 FNLDENAMTFQENARFGQSVVVOLOGSRVYVGAPOEIVANQSGSLYQCDYSTGSCBEI 76
QY 61 RLQVPEAVNMSLGLSLAATTSPPOLLAGCPVTHQTCSENTYVKGCLFSGNLROQPOK 120
DB 77 RLQVPEAVNMSLGLSLAATTSPPOLLAGCPVTHQTCSENTYVKGCLFSGNLROQPOK 136
QY 121 PFEALRGCFQEDSDIAFLVDGSGSII PHDFRAKEFISTVMEQLKSKTLPFLMOYSEEF 180
DB 137 PFEALRGCFQEDSDIAFLVDGSGSII PHDFRAKEFISTVMEQLKSKTLPFLMOYSEEF 196
QY 181 RHFTFKEFQNNPNRSLIKPITOLLGRTHTATGIRKVVRELFNITNGARKNAFKILILI 240
DB 197 RHFTFKEFQNNPNRSLIKPITOLLGRTHTATGIRKVVRELFNITNGARKNAFKILIVI 256
QY 241 TGEKRGDGLGEDYIPENDREGVIRYVGVGDARSEKROBELNTVASKPRDHYFOIN 300
DB 257 TGEKRGDGLGEDYIPENDREGVIRYVGVGDARSEKROBELNTVASKPRDHYFOIN 316
QY 301 NFEALKTIONOLREKIFALEGTQTSSESFHEHMSQEGFSAATNSGPLSTVGSYDMAG 360
DB 317 NFEALKTIONOLREKIFALEGTQTSSESFHEHMSQEGFSAATNSGPLSTVGSYDMAG 376
QY 361 GVFLYTSKEKSTFINMTVRVDSDMNDAYLGYAAIILRNVOGLVZGAPRYOHIGLVAMER 420
DB 377 GVFLYTSKEKSTFINMTVRVDSDMNDAYLGYAAIILRNVOGLVZGAPRYOHIGLVAMER 436
QY 421 QNTGWESNANVKGIOIGAFGASLCSVDVDSNGSTDLVLIGAPHYEDTRGQVSVCL 480
DB 437 QNTGWESNANVKGIOIGAFGASLCSVDVDSNGSTDLVLIGAPHYEDTRGQVSVCL 496
QY 481 PGGORARQCDVAVLGEQGPWGRFGAALTVDVNGDCLTVAIGAPEEDNRGAIVYLF 540
DB 497 PGGRARQCDVAVLGEQGPWGRFGAALTVDVNGDCLTVAIGAPEEDNRGAIVYLF 555
QY 541 HGTSGSGISPSHSQRIAGSKSLPRLQYFGQSLSGGODLTMDGLVLDLVGAQGHVILLRSQ 600
DB 556 HGTSGSGISPSHSQRIAGSKSLPRLQYFGQSLSGGODLTMDGLVLDLVGAQGHVILLRSQ 615
QY 601 PVLRYVAIMEFNPREVARYARVNECNDQVVKKEAGEVAVCLHVKQSTRDRREGOIOSVVT 660
DB 616 PVLRYVAIMEFNPREVARYARVNECNDQVVKKEAGEVAVCLHVKQSTRDRREGOIOSVVT 675
QY 661 YDLALDSGRPHRAVFNENKSTRQTOVLGLTQTCETLKLQPNCLIEDEVPSPVLRINF 720
DB 676 YDLALDSGRPHRAVFNENKSTRQTOVLGLTQTCETLKLQPNCLIEDEVPSPVLRINF 735
QY 721 SLVGTPLSAFNGRLPVLAEADAQRLFTALFPFEKNCNDNI CODDLSTFSPMSLDCLVYG 780
DB 736 SLVGTPLSAFNGRLPVLAEADAQRLFTALFPFEKNCNDNI CODDLSTFSPMSLDCLVYG 795
QY 781 GPRESNVTVTVRNDGEDSYRTQVTFPPDLDSYRKVSTLONORSQSMRLACSSASTEV 840
DB 796 GPRESNVTVTVRNDGEDSYRTQVTFPPDLDSYRKVSTLONORSQSMRLACSSASTEV 855
QY 841 SGALKSTSCSINHPIFPENSEVTENITFDVDSKASLGNKLLKANYTSENMPRTNKTEF 900
DB 856 SGALKSTSCSINHPIFPENSEVTENITFDVDSKASLGNKLLKANYTSENMPRTNKTEF 915

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Qy 901 QLELPVKAVVWVWVTSBGVSTKYLNTFTASENTRVWQHGYOVSNLQORSLPISLVFLVPV 960
Db 916 QLELPVKAVVWVWVTSBGVSTKYLNTFTASENTRVWQHGYOVSNLQORSPBISLVFLVPV 975
Qy 961 RLNQIVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1020
Db 976 RLNQIVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1035
Qy 1021 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1080
Db 1036 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1095
Qy 1081 KYEPFEVNPPLPIVSSVGGLLLLALITLALYKLGFFKQYKDMMSBEGPPGAEPO 1137
Db 1096 KYEPFEVNPPLPIVSSVGGLLLLALITLALYKLGFFKQYKDMMSBEGPPGAEPO 1152

RESULT 12
5424399-2
Patent No. 5424399
APPLICANT: ARNAOUT, M. AMIN
TITLE OF INVENTION: HUMAN CR3a/b HETERODIMERS
NUMBER OF SEQUENCES: 12
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/78,871
FILING DATE: 16-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 212,573
FILING DATE: 28-JUN-1988
SEQ ID NO:2
LENGTH: 1152
5424399-2

Query Match 99.2%; Score 5831.5; DB 6; Length 1152;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1126; Conservative 7; Mismatches 3; Indels 1; Gaps 1;

Qy 1 FNDJENAMTFQENARFGQSVVQLOGSSRVVGAPOEIVANORGSLYOCDDYSTGCEPI 60
Db 17 FNDJENAMTFQENARFGQSVVQLOGSSRVVGAPOEIVANORGSLYOCDDYSTGCEPI 76
Qy 61 RLQVPVEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGCLFELGSLNRQOPQK 120
Db 77 RLQVPVEAVNMSLGLSLAATSPPOLACGPTVHQCSENTYVKGCLFELGSLNRQOPQK 136
Qy 121 FPFALGCGPOEDSDIAFLVDGSGIIPHDFRAKEPSTYMEQDKSKTFLSIMQYSEEP 180
Db 137 FPFALGCGPOEDSDIAFLVDGSGIIPHDFRAKEPSTYMEQDKSKTFLSIMQYSEEP 196
Qy 181 RHIFTEKEPONNNPNSLSIKPIITOLGRTHTATGIRKVVVELNINMGARAKNAFKLIL 240
Db 197 RHIFTEKEPONNNPNSLSIKPIITOLGRTHTATGIRKVVVELNINMGARAKNAFKLIL 256
Qy 241 TDEKEFGDPLGYEDVLPADREGEVIRYIGVDAFSEKSEKROELNTVASKPRPDHYFOIN 300
Db 257 TDEKEFGDPLGYEDVLPADREGEVIRYIGVDAFSEKSEKROELNTVASKPRPDHYFOIN 316
Qy 301 NFEALKTIONQLEKEKIFALIGTGTGSSSSFEHEMSSQEGFSAATTSNGPLISTVGSYDMAG 360
Db 317 NFEALKTIONQLEKEKIFALIGTGTGSSSSFEHEMSSQEGFSAATTSNGPLISTVGSYDMAG 376
Qy 361 GVLPLYSKEKSTFINMTRVSDMNDAIAGYAAAILLRNROSIVLGAAPRQIHGLVAMFR 420
Db 377 GVLPLYSKEKSTFINMTRVSDMNDAIAGYAAAILLRNROSIVLGAAPRQIHGLVAMFR 436
Qy 421 QNTGMESNANVKTGTOIGAFGASLCSVDVDSNGSTDVLVIGAPHYYEOTRGQGVSVCP 480
Db 437 QNTGMESNANVKTGTOIGAFGASLCSVDVDSNGSTDVLVIGAPHYYEOTRGQGVSVCP 496
Qy 481 PRGQARWOCDAVLVYGEQGPWGRFGAALTVLGDVNGDKLTDAVIGAEGEDNRGAAYLF 540

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Db 497 PRG-QARWOCDAVLVYGEQGPWGRFGAALTVLGDVNGDKLTDAVIGAEGEDNRGAAYLF 555
Qy 541 HGTSSGSGISPSHSORIASKSLSPRLQYFGQSLSGQDILTMQDLYDLTVGAGQHVLLLRQ 600
Db 556 HGTSSGSGISPSHSORIASKSLSPRLQYFGQSLSGQDILTMQDLYDLTVGAGQHVLLLRQ 615
Qy 601 PYLRVKAIMEFNPRAVARNVEFCNDQVYKKEAGEVRCVLAHQKSTRDLRREGQIQSVVT 660
Db 616 PYLRVKAIMEFNPRAVARNVEFCNDQVYKKEAGEVRCVLAHQKSTRDLRREGQIQSVVT 675
Qy 661 YDLALDSGRPHRAVARNVEKNSSTRQTOVLGLTQTCETLKQLPNCIBEPVSPVILRLNF 720
Db 676 YDLALDSGRPHRAVARNVEKNSSTRQTOVLGLTQTCETLKQLPNCIBEPVSPVILRLNF 735
Qy 721 SLVGTPLSAFGNLRPLAEDAORLFTALFPFKKNGNDNICODDLSITSPFMSLCLVVG 780
Db 736 SLVGTPLSAFGNLRPLAEDAORLFTALFPFKKNGNDNICODDLSITSPFMSLCLVVG 795
Qy 781 GREFNVTVVANDGEDSYRTQVTEFFPDLISYKRVSTIQNORSQSWRLACESASTEV 840
Db 796 GREFNVTVVANDGEDSYRTQVTEFFPDLISYKRVSTIQNORSQSWRLACESASTEV 855
Qy 841 SGALSTSCSINHPIFPENSEVTENITPDVDSKASLGNKLLKAVNTSENNPRTNKTEF 900
Db 856 SGALSTSCSINHPIFPENSEVTENITPDVDSKASLGNKLLKAVNTSENNPRTNKTEF 915
Qy 901 QLELPVKAVVWVWVTSBGVSTKYLNTFTASENTRVWQHGYOVSNLQORSLPISLVFLVPV 960
Db 916 QLELPVKAVVWVWVTSBGVSTKYLNTFTASENTRVWQHGYOVSNLQORSPBISLVFLVPV 975
Qy 961 RLNQIVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1020
Db 976 RLNQIVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1035
Qy 1021 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1080
Db 1036 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1095
Qy 1081 KYEPFEVNPPLPIVSSVGGLLLLALITLALYKLGFFKQYKDMMSBEGPPGAEPO 1137
Db 1096 KYEPFEVNPPLPIVSSVGGLLLLALITLALYKLGFFKQYKDMMSBEGPPGAEPO 1152

RESULT 13
US-08-476-062A-44
Sequence 44, Application US/08476062A
Patent No. 5877275
GENERAL INFORMATION:
APPLICANT: Arnaout, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson P. C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PasteSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842

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QY 1 ENLDTENAMTFOENARFGOSVVOLOGSRVYVGAQOEIVANQROSLVYOCDSYSGCEPI 60  
 DB 20 FNLDTBELTAFFRVDSAGFDSVVOYANVWVGAPOKITAANQOTGLYOCGYSTGACEPI 79  
 QY 61 RLOVPEAVNMGSLGSLAATTSPPOLLAGCPVTHQTCSENTYVKGICFLFGSNLRQOPK 120  
 DB 80 GLOVPEAVNMGSLGSLAATTSPPOLLAGCPVTHQTCSENTYVKGICFLFGSNLRQOPK 137  
 QY 121 FPEALRGCPQOEDSDIAFLVDGSGSII PHDFRAKEFISTVMEOLKSKTLLFSIMQSEEF 180  
 DB 138 LPSVROECRQODIVFLDGGSGISSRNFATMMNFRAVISOPOPSQFSLMOGSKNF 197  
 QY 181 RIHFTFKERQNNPNRSLIKPITQOLGRTHTATGRKRVYRELFNITNGARKNAFKILILI 240  
 DB 198 QHFTFEERFRRTSNPLSLASVHOLQGFYTTATAIQNVVHRLFHASYGARBARATKILIVI 257  
 QY 241 TGEKFGDPLGVEDYIPEADREGVIRYVIGVDAFRSEKSRQELNVTVASKPRDHFQJN 300  
 DB 258 TDGKKEGSDLDKDYIPMADAGIIRYALGVGLAFQNRSMKELNDIAKPSQEHFKYE 317  
 QY 301 NFEALKTIONOLREKIFAIEGTQOTGSSSFEHEMSQEGSAITNSGPLLSTVGYDMAG 360  
 DB 318 DFDALKDIONOLREKIFAIEGTQOTGSSSFEHEMSQEGSAITNSGPLLSTVGYDMAG 377  
 QY 361 GVFLYTSKEKSTFINMTVSDMDNDAYLGYAAIILRNVOISVLGAPRYOHIGLVAMFR 420  
 DB 378 GAFVLPYNNSPFINNSQENVDRDSYLGSTELAMKGVQSLVIGAPRYOHTGKAVIFT 437  
 QY 421 QNTGMESNANKGTIGAYFGASLCSVDNSGSTDVLIAGAPHYEEOTRGQVSVCL 480  
 DB 438 QVSRQRMKAEVYGTQIGSYFGASLCSVDNSGSTDVLIAGAPHYEEOTRGQVSVCL 497  
 QY 481 PRGORARWOCDAVLYXGEOGOWMGRFAGALTVDVNGDKLTDVAICAPSEEDRGVLYE 540  
 DB 498 PRGMR-RMWCDAVLYXGEOGOWMGRFAGALTVDVNGDKLTDVAICAPSEEDRGVLYE 556  
 QY 541 HCTSGSGISPSHSQRIAGSKSLPRLOYFGQSLSGQDGLTMDGLVDTVGAQGHVLLRSQ 600  
 DB 557 HGVLPSPISPSHSQRIAGSKSLPRLOYFGQSLSGQDGLTMDGLVDTVGAQGHVLLRSQ 616  
 QY 601 PVLRYKALMEFNPRAVAFECNDQVYKKEGAEVRLCHVOKSTRDLREQIOSVT 660  
 DB 617 PVLWGVSNQFIPAEIPRAFAFECREOVSEQTLVQSNICLYDKRSKNLGSRLDQSVT 676  
 QY 661 YDLALDSGRPHSAVFNENKSTRROTUVLGLTQTCETLKLQLPNCIEDVPSPVIRLNF 720  
 DB 677 LBLALDPRGLSPRAFOETKNSLSRVVGLKACHCENFLPLSCVEDSVITILRLNF 736  
 QY 721 SLVGTPLSAFGNLRVLAEDQRLFTALPPEFKNCNDNICODDLSTESFMSLDCLVVG 780  
 DB 737 TLVGRKLLAFNLRPMLALAQRYFTASLPFEKNCADHICQDNLGISFSFPLKSLVVG 796  
 QY 781 GRPEFNVYTVNRDGEDSRTOVTFFPLDLSTRKYSTLONQSRQSRMLACESASTEV 840  
 DB 797 SNLELAEVWVNDGSDSYGTTITTFSHPAGLSTRYVAEGQKQGLRSLHITCSAIVG-- 854  
 QY 841 SGALKSTGSIINHPREPNSEVENTFPDVSASIKULLKANTSENNMRTKTER 900  
 DB 855 SGGTSTSCRINHLIRGGQITFLATFDVSPRAVLAGDRLLTANVSSSENNPRTSKTTF 914  
 QY 901 QLELPKAVAVVWVTVSHGVSTKTLNFTAS-ENTSRVMOHQYVSNLQORSPLISLFLVY 959  
 DB 915 QLELPKAVAVVTVSHGVSTKTLNFTAS-ENTSRVMOHQYVSNLQORSPLISLFLVY 974  
 QY 960 VRLNQVIVDRPOVTVSENUSTGHTKERLPSHSDPLAELRKAIPVNCISIAVCQIQCOT 1019  
 DB 975 VRLNQVIVDRPOVTVSENUSTGHTKERLPSHSDPLAELRKAIPVNCISIAVCQIQCOT 1034  
 QY 1020 PFEIGOEENFATLKGSLSPWYIKTSHNHLIYSTAELIENDSVFTLLPQGAFAVNSOTE 1079  
 DB 1035 PFSVVEEEDFTLKGSLSGWVQIILQKKVSVVAEITFDVTSVYOLPQOEAFKMAQTT 1094  
 QY 1080 TKVEPEVBNPLPLIVGSSVGLLLALITPAALYKLGFFKQYKDMSE 1128

DB 1095 TYLEKXKVNPPPLIVGSSIGGLLALITAVLYVGFPGKQYKEMEB 1143  
 RESULT 15  
 US-08-173-497-4  
 ; Sequence 4, Application US/08173497  
 ; Patent No. 5437958  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gallatin, W. Michael  
 ; APPLICANT: Van Der Vieren, Monica  
 ; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha  
 ; TITLE OF INVENTION: Subunit  
 ; NUMBER OF SEQUENCES: 29  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun  
 ; STREET: 233 S. Wacker Drive, 6300 Sears Tower  
 ; CITY: Chicago  
 ; STATE: Illinois  
 ; COUNTRY: USA  
 ; ZIP: 60606-6402  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/173,497  
 ; FILING DATE:  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: No. 5437958and, Greta E.  
 ; REGISTRATION NUMBER: 35,302  
 ; REFERENCE/DOCKET NUMBER: 27866/31363  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 312-474-0448  
 ; TELEFAX: 312-474-0448  
 ; TELEX: 25-3856  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1163 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-173-497-4  
 Query Match 58.6%; Score 3446; DB 1; Length 1163;  
 Best Local Similarity 60.8%; Pred. No. 5.5e-282;  
 Matches 686; Conservative 147; Mismatches 290; Indels 6; Gaps 4;  
 QY 1 ENLDTENAMTFOENARFGOSVVOLOGSRVYVGAQOEIVANQROSLVYOCDSYSGCEPI 60  
 DB 20 FNLDTBELTAFFRVDSAGFDSVVOYANVWVGAPOKITAANQOTGLYOCGYSTGACEPI 79  
 QY 61 RLOVPEAVNMGSLGSLAATTSPPOLLAGCPVTHQTCSENTYVKGICFLFGSNLRQOPK 120  
 DB 80 GLOVPEAVNMGSLGSLAATTSPPOLLAGCPVTHQTCSENTYVKGICFLFGSNLRQOPK 137  
 QY 121 FPEALRGCPQOEDSDIAFLVDGSGSII PHDFRAKEFISTVMEOLKSKTLLFSIMQSEEF 180  
 DB 138 LPSVROECRQODIVFLDGGSGISSRNFATMMNFRAVISOPOPSQFSLMOGSKNF 197  
 QY 181 RIHFTFKERQNNPNRSLIKPITQOLGRTHTATGRKRVYRELFNITNGARKNAFKILILI 240  
 DB 198 QHFTFEERFRRTSNPLSLASVHOLQGFYTTATAIQNVVHRLFHASYGARBARATKILIVI 257  
 QY 241 TGEKFGDPLGVEDYIPEADREGVIRYVIGVDAFRSEKSRQELNVTVASKPRDHFQJN 300  
 DB 258 TDGKKEGSDLDKDYIPMADAGIIRYALGVGLAFQNRSMKELNDIAKPSQEHFKYE 317  
 QY 301 NFEALKTIONOLREKIFAIEGTQOTGSSSFEHEMSQEGSAITNSGPLLSTVGYDMAG 360

Db 318 DFDALDIONQLEKJFAIEGTEETISSSPELEMAOEGPSAVFTPDGAVLGAVGSFTWSG 317  
Qy 361 GVELYTSKESTFIINTTRVDSDNDAYLGYAAIILRNRYQSLVLAGPRYOHIGLAMFR 420  
Db 378 GAFLYPPNMSPTFINMSQENVDRDSTYLGSTBLAMKGVQSLVLAGPRYOHIGKAVIFL 437  
Qy 421 QNTGMESSNANVKTGTOIGAVFGASLCSVDVNSGSTDVLIGAPHYEEQTRGGQVSVCP 480  
Db 438 QVSRQWRMKALEVIQIGSYFGASLCSVDVDTGSTDVLIGAPHYEEQTRGGQVSVCP 497  
Qy 481 PRGQBARMOCDALVGEQOQPMGRFGAALTVDVNDGDKLTDVAIGAPGEDNRGAIVLF 540  
Db 498 PRGMR-RMMCDALVGEQOQPMGRFGAALTVDVNDGDKLTDVIGAPGEENRGAIVLF 556  
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLGGODLTMDGLVDLTGAGQHVLLRSQ 600  
Db 557 HGVLGSPISPSHSQRIAGSKLSPRLQYFGQSLGGODLTMDGLVDLTGAGQHVLLRTR 616  
Qy 601 PVLRYKAIEMFNPREVARNVECNDOVYKGEAGEYRVLHVQKSTRDLREGQIQSVYT 660  
617 PVLWGVSMQFIPAEIPRSAFECEQVSEQTLVQSNICLYIDKRSKNLLGSRDLQSVYT 676  
Qy 661 YDLALDSGRPHSAVNETKSTRQTOVIGLTQTCETLKLQLPNCIEDPVSPVLRINF 720  
Db 677 LDIALAPGRISPRAIFQETKNRSLSRVYGLKAHCENFLLPSCVEDSVIPIILRLNF 736  
Qy 721 SLVGTPLSAFAGNLRPYLAEDQRLFTALPFEKNCGNNDICODDLSTFSFMSLDCIYVG 780  
Db 737 TLVGRLLAFRNLRPMLAALQRYFTASLPFEKNCADHICQDNLGISFSPGLKSLVIG 796  
Qy 781 GPREFNVTYVRNDGEDSYRTQVTFPPLDLSYRKVSTLQNRQSRWRLACESASTEV 840  
Db 797 SNLELNAEVMWMDGEDSYGTTTFSPHAGLSYRYVAEGQKQGLRSILHLC--CSAPVG 854  
Qy 841 SGALKSTSCSINRPIPPENSEVTFTFDVDSKASLGNKLLKANTSENMPTKTEF 900  
Db 855 SOGTWSTSCINHLIFRGGQITFLATFDVSPRAVGLDRLLIANVSSENNIPRTSKTIF 914  
Qy 901 QLELPVKYAVYVVTSHGVSTKYLNFTAS-ENTSRVMOHOYOVSNIGORSLPISLVLVP 959  
Db 915 QLELPVKYAVYVVSHEQTKYLNFSSESEKESHVAMHRYOVNNGORDLPVSNFVVP 974  
Qy 960 VRLNQTVIWDRPQVTESENLSSTCHTKERLPSHSDFLAELRKA PVVNCSTIACQRIQCDI 1019  
Db 975 VELNQAVVMWMDVEVSHQNPSELRCSSEKTIAPPASDFLAHQKNPVLDCSIAGCLRFRCV 1034  
Qy 1020 PFRGIGIEFNATIKGNLSPWYIKTSHNHLIYSTAEILPNDVFTLLPQOGAFVRSQTE 1079  
1035 PSFSVQBEULDFTLKGNLISFGWVROILQKRVSVVAEIIIFDTSVYSQLPQGEAFMRAQTI 1094  
Qy 1080 TKVEPEFVNPPLPLIVGSSVSGLLLALITPAALYKLGFFKROYKDMWSE 1128  
1095 TVLEKRYKNPILPLIVGSSIGLILLALITAVLYKVGFFKROYKEMMER 1143

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Job time : 22.3333 secs